

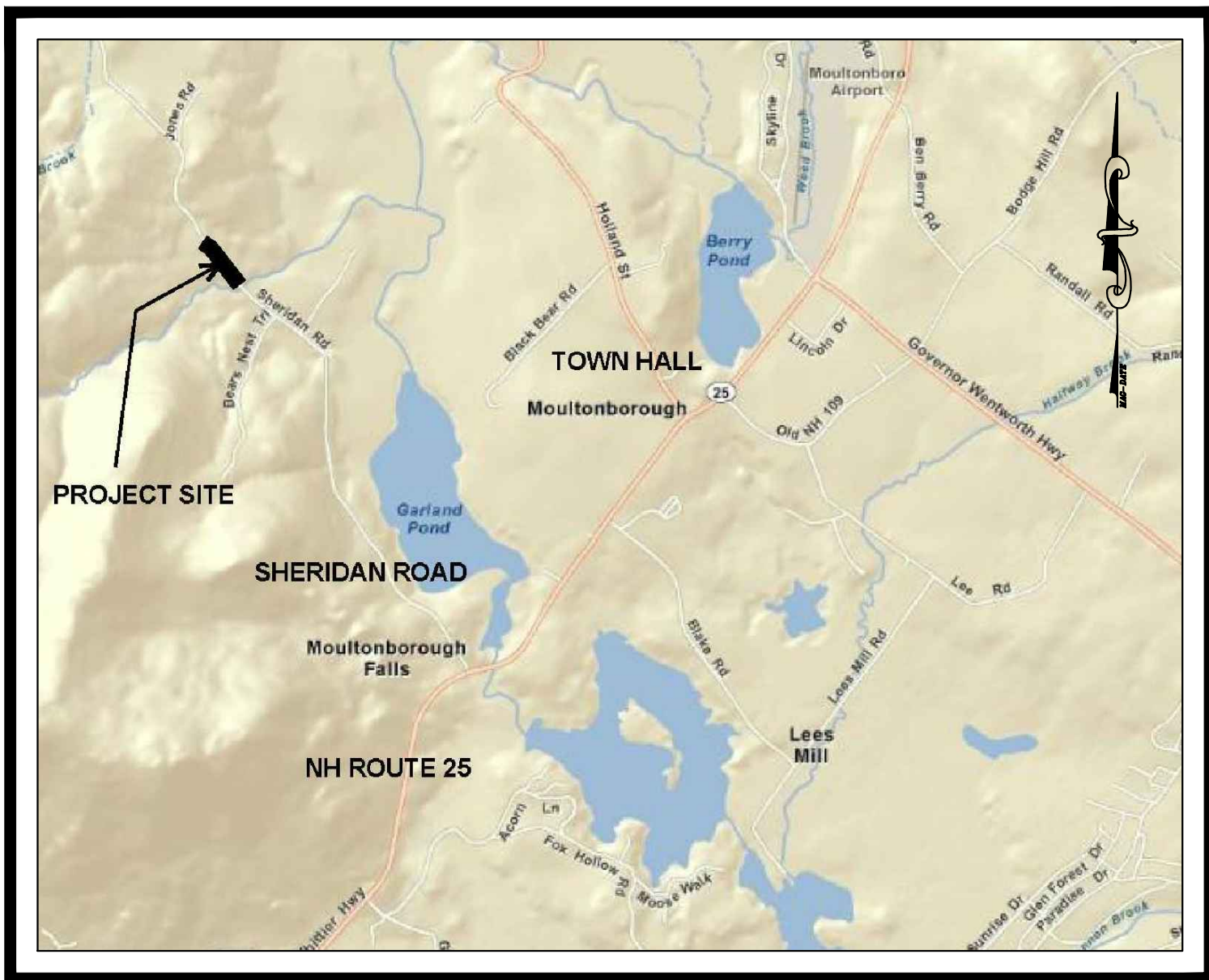
TOWN OF MOULTONBOROUGH, NEW HAMPSHIRE

2012 ROAD PROGRAM - SHERIDAN ROAD



INDEX

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Locus Map

Not to Scale

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ROAD AGENT

Scott Kinmond

JULY 2012

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PO BOX 7721
GILFORD, NH 03247
TEL: (603) 513-1909

PO BOX 432
NEW BOSTON, NH 03070
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GENERAL NOTES


1. BASE MAP INFORMATION IS PROVIDED BY PROMISED LAND SURVEY, LONDONDERRY, NEW HAMPSHIRE. SURVEY COMPLETED IN NOVEMBER 2010.
2. HORIZONTAL DATUM IS NH STATE PLANE NAD83 BASED ON LEICA GPS. THE VERTICAL DATUM IS REFERENCED TO NGVD29 BASED ON LEICA GPS.
3. FOR BORING/PROBE LOGS REFER TO SPECIFICATIONS. BORING/PROBE LOCATIONS SHOWN ON DRAWINGS ARE APPROXIMATE.
4. THE CONTRACTOR SHALL VERIFY ALL RELEVANT ANGLES, LENGTHS, ELEVATIONS, AND INVERTS PRIOR TO CONSTRUCTION.
5. THE LOCATION OF EXISTING UTILITIES AND SUBSURFACE STRUCTURES AS SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND APPROPRIATE UTILITY AUTHORITY OF ANY DISCREPANCY WITH THE DRAWINGS. NEITHER THE ENGINEER NOR THE OWNER WARRANTS OR GUARANTEES THE CONDITIONS SHOWN ON THE DRAWINGS.
6. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL SUBSURFACE STRUCTURES AND UTILITIES THROUGH THE APPROPRIATE AGENCY. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO ANY EXCAVATION. THE CONTRACTOR SHALL CALL THE DIG-SAFE CENTER (1-888-344-7233) AT LEAST 72 BUSINESS HOURS PRIOR TO ANY EXCAVATION.
7. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITY WITH THE VARIOUS AFFECTED UTILITY AUTHORITIES TO PREVENT UNNECESSARY DELAY OF WORK OR INTERRUPTION OF SERVICES.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING AND SUPPORTING ALL UTILITIES DURING CONSTRUCTION AND FOR COORDINATING SUCH ACTIVITY WITH THE APPROPRIATE UTILITY AUTHORITY. UTILITIES DESTROYED OR DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AS DIRECTED BY THE UTILITY AUTHORITY AT NO ADDITIONAL COST TO THE OWNER.
9. THE CONTRACTOR SHALL MAINTAIN TRAFFIC IN A SAFE MANNER AT ALL TIMES DURING CONSTRUCTION AND IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
10. THE CONTRACTOR SHALL INSTALL AND MAINTAIN TEMPORARY FACILITIES AS NEEDED TO AVOID SERVICE DISRUPTIONS. THE CONTRACTOR SHALL SUBMIT A PLAN TO BE REVIEWED BY THE ENGINEER FOR MAINTAINING SERVICE TO BUILDINGS AFFECTED BY THE CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING CUSTOMERS OF SERVICE DISRUPTIONS. NO DISRUPTION OF SERVICE SHALL BE BEFORE 9:00 AM OR AFTER 3:00 PM.
11. THE CONTRACTOR SHALL CONFINE ALL OPERATIONS AND ACTIVITIES FOR CONSTRUCTION PURPOSES WITHIN THE EXISTING RIGHT-OF-WAY, TEMPORARY EASEMENTS OR IN STAGING/STOCKPILE AREAS APPROVED BY THE OWNER. THE CONTRACTOR SHALL LOCATE STAGING AREAS THROUGH AGREEMENTS WITH AFFECTED PROPERTY OWNERS, OR PROVIDE ALTERNATE MEANS TO STORE MATERIAL AT THE WORK AREA AS REQUIRED.
12. DURING NON-WORKING HOURS, THE CONTRACTOR SHALL SECURE ALL EQUIPMENT AND MATERIALS WITHIN THE LIMITS OF WORK.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING PAVEMENT, ROADWAYS, SIGNS, CURBS, SIDEWALKS, DRIVEWAYS, MAILBOXES, FENCES, PLANTINGS OR OTHER PHYSICAL FEATURES CAUSED BY THE CONTRACTOR'S ACTIVITIES AND SHALL REPAIR THEM AT NO ADDITIONAL COST TO THE OWNER. ALL AREAS BEYOND THE LIMITS OF CONSTRUCTION WHICH ARE DISTURBED BY THE CONTRACTOR SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
14. THE CONTRACTOR SHALL TAKE PRECAUTIONS DURING CONSTRUCTION TO MINIMIZE THE AMOUNT OF DEBRIS THAT COLLECTS IN CATCH BASINS, CULVERTS AND MANHOLES. THE CONTRACTOR SHALL CLEAN ALL CATCH BASINS, CULVERTS AND MANHOLES AFFECTED BY CONSTRUCTION IN ORDER TO MAINTAIN AN OPERATING SYSTEM.
15. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS FROM APPLICABLE GOVERNMENTAL AGENCIES, INCLUDING THE OWNER, PRIOR TO THE START OF ANY CONSTRUCTION.
16. THE CONTRACTOR IS REQUIRED TO PROVIDE ADEQUATE SHORING FOR THE SOIL CONDITIONS AND DEPTHS ENCOUNTERED DURING CONSTRUCTION.
17. IN THE EVENT THE CONTRACTOR ENCOUNTERS EXISTING MATERIAL REASONABLY BELIEVED TO BE HAZARDOUS WHICH HAS NOT BEEN RENDERED HARMLESS, THE CONTRACTOR SHALL IMMEDIATELY STOP WORK IN THE AFFECTED AREA AND REPORT THE CONDITION TO THE OWNER AND ENGINEER. WORK IN THE AFFECTED AREA SHALL NOT RESUME UNTIL WRITTEN VERIFICATION BY THE OWNER THAT THE MATERIAL HAS BEEN REMOVED OR OTHERWISE BEEN RENDERED HARMLESS.
18. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH THE CONTRACT DOCUMENTS. ALL DRAWINGS OF ANY PARTICULAR TRADE SHALL BE USED IN CONJUNCTION WITH DRAWINGS OF ALL OTHER TRADES TO COORDINATE THE CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED WORK. ANY PROPOSED CHANGES, VARIATIONS, OR SUBSTITUTIONS MUST BE REVIEWED AND ACCEPTED BY THE ENGINEER PRIOR TO IMPLEMENTATION.

LEGEND


EXISTING




ELECTRIC METER




TEMPORARY BENCH MARK




FLAG POLE




MAIL BOX




TV ANTENNA




CATCH BASIN




DROP INLET




DRAIN LINE




FIRE HYDRANT




LP GAS TANK




UNDERGROUND LP GAS TANK




SEWER MANHOLE




SEWER LINE




TELEPHONE MANHOLE




WATER GATE




WATER SHUTOFF




WATER VALVE BOX




WELL




WATER LINE




UTILITY POLE




GUY POLE




GUY WIRE




OVERHEAD UTILITY LINES (ELECTRIC, TELEPHONE, CABLE)




STONE RETAINING WALL




CONCRETE RETAINING WALL




GRANITE RETAINING WALL




BRICK WALKWAY




CONCRETE WALKWAY




STONE WALKWAY




LEDGE OUTCROP




WOOD FENCE




TREE/SHRUB LINE




CONIFEROUS TREES




DECIDUOUS TREES



RIGHT-OF-WAY




EDGE OF PAVEMENT




BORING LOCATION AND DESIGNATION


PROPOSED




EDGE OF PAVEMENT




LIMIT OF SLOPE




DRAIN LINE




GUARDRAIL



FLARED END SECTION (FES)

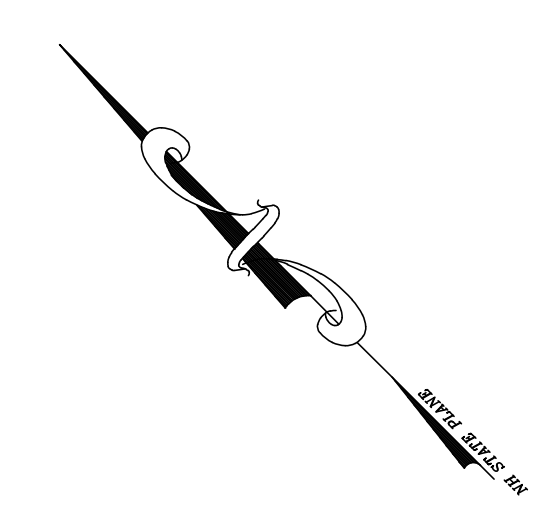


CATCH BASIN

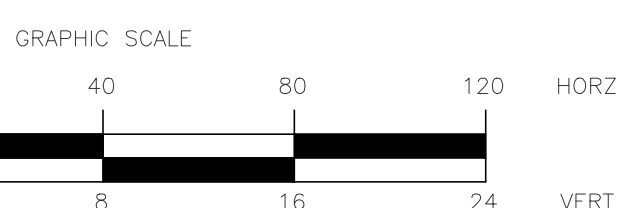


SPOT ELEVATION

					 <div>PO BOX 7721 GILFORD, NH 03247 TEL: (603) 513-1909</div> <div>PO BOX 898 MANCHESTER, NH 03105 TEL: (603) 413-6550</div> <div>www.kvpilc.com</div>	DATE:	07-12-12	2012 ROAD PROGRAM - SHERIDAN ROAD MOULTONBOROUGH, NEW HAMPSHIRE		SHEET NO.	
NUMBER	DATE	BY	DESCRIPTION			SCALE:	AS NOTED			1	
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						DRAWN BY:	NMT	GENERAL NOTES AND LEGEND		SHEET 1 OF 8	
						CHECKED BY:	RHK				
						APPROVED BY:	RHK				

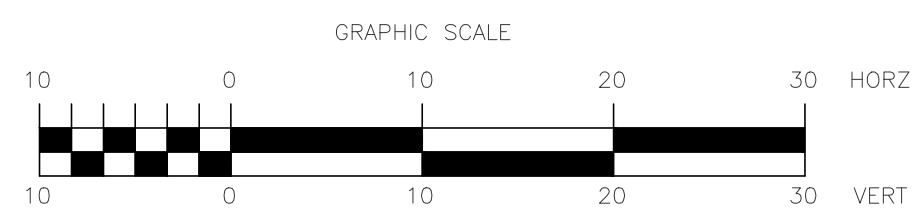
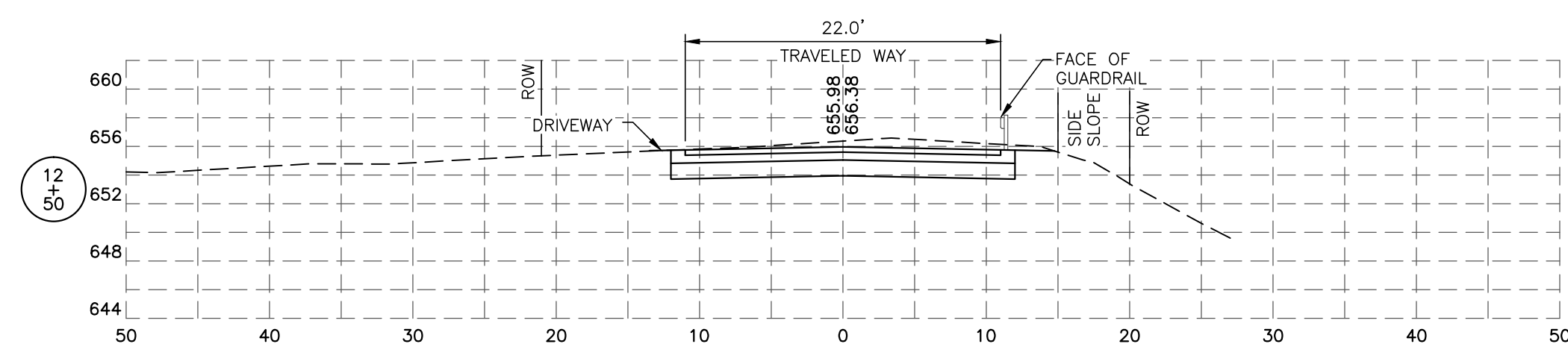
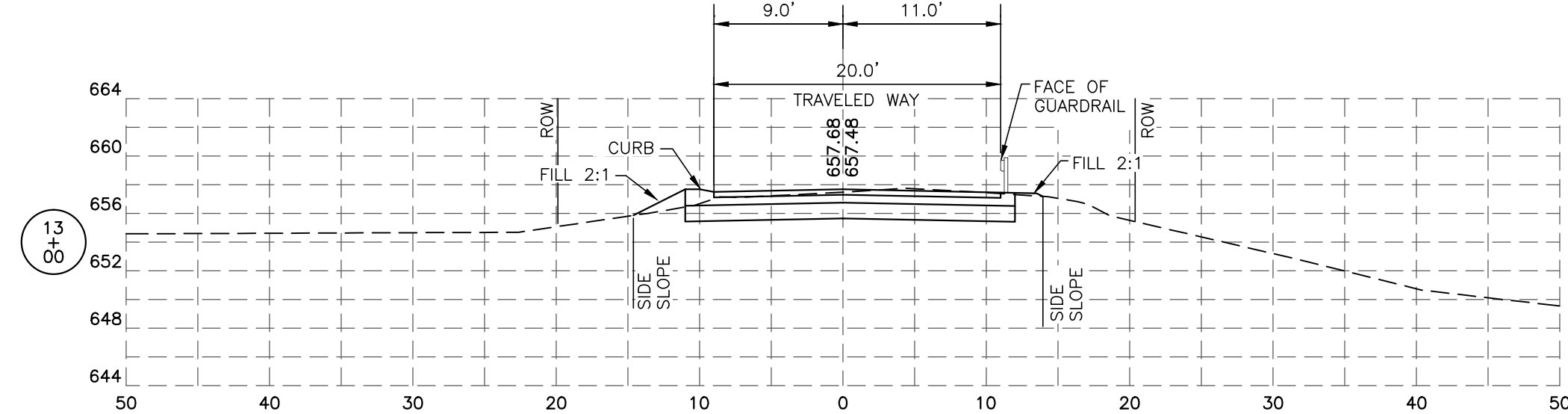
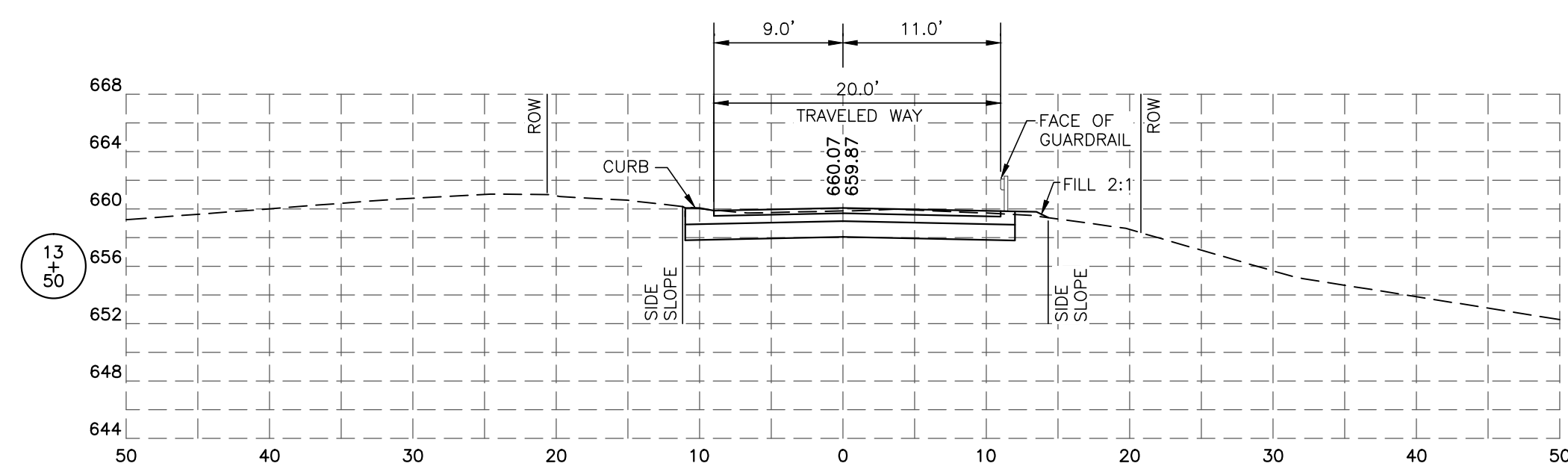
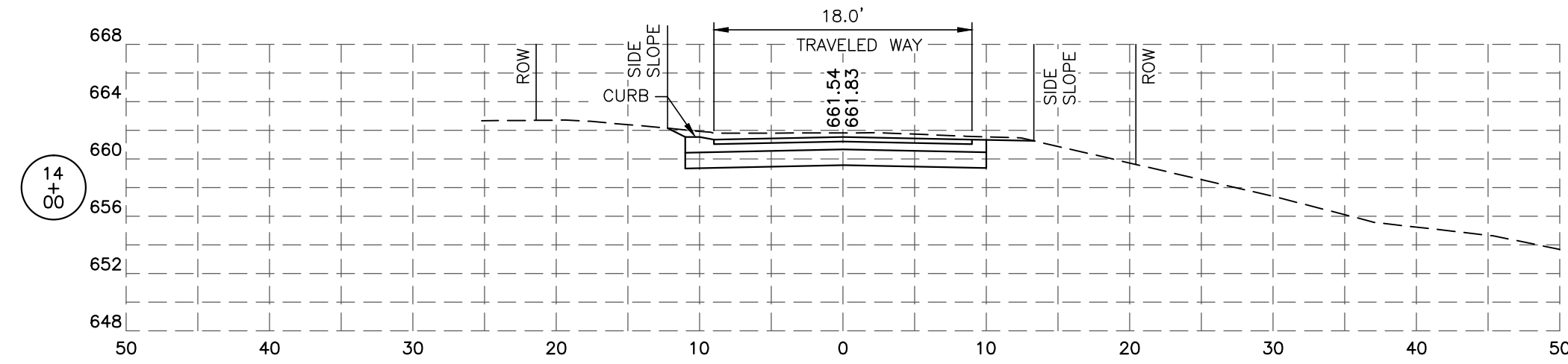
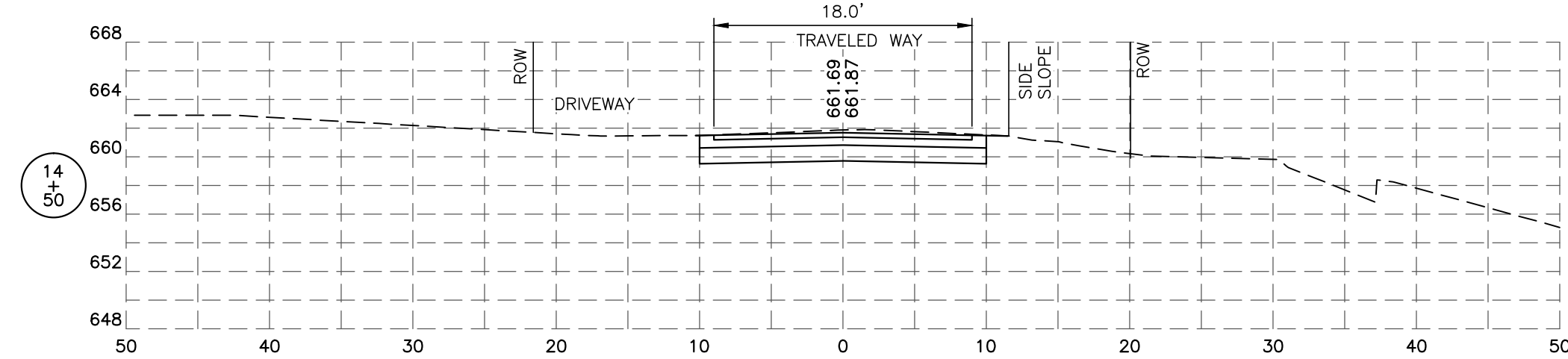
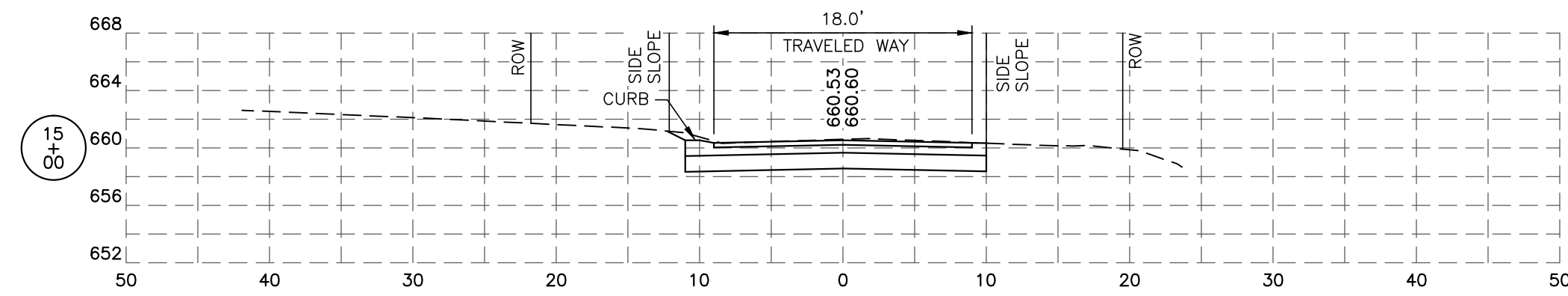
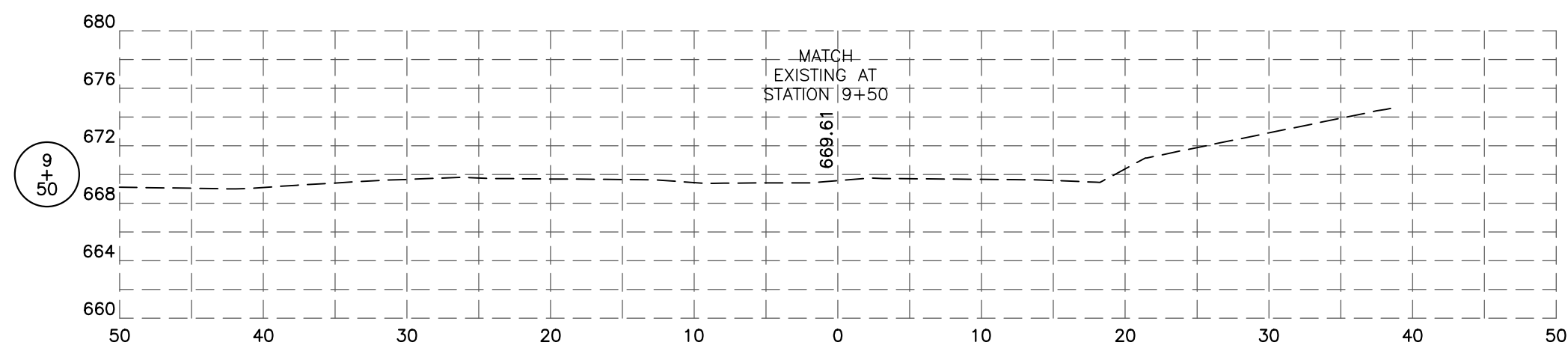
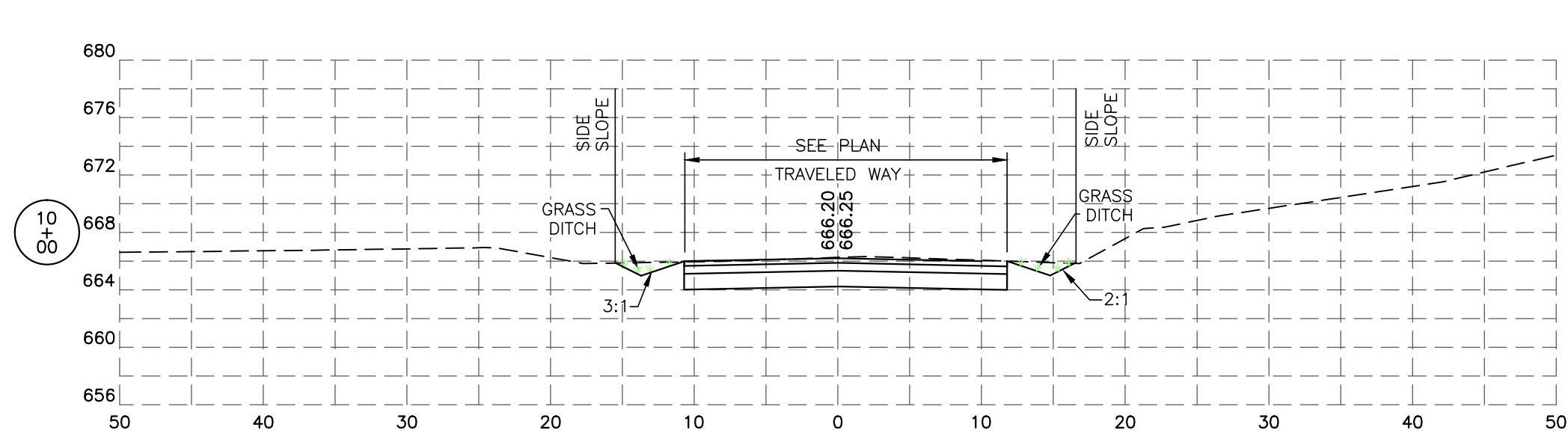
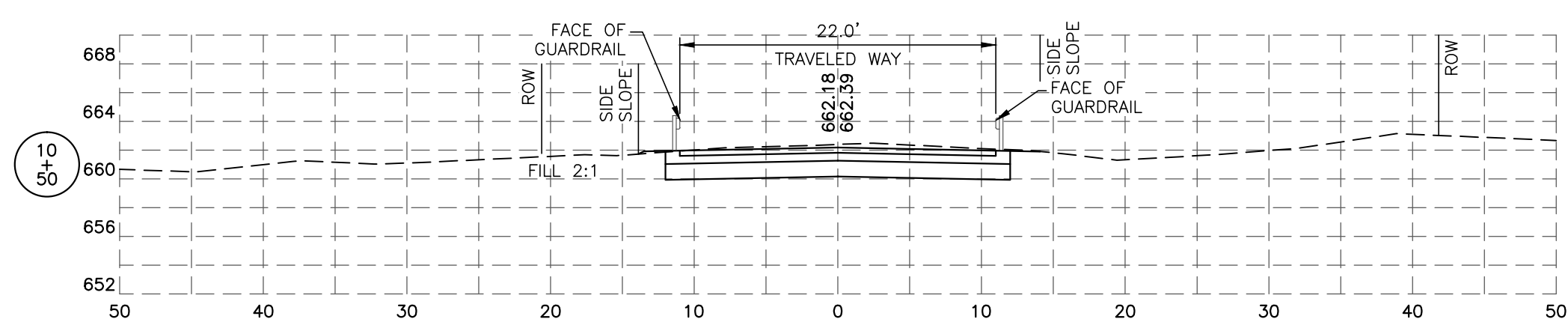
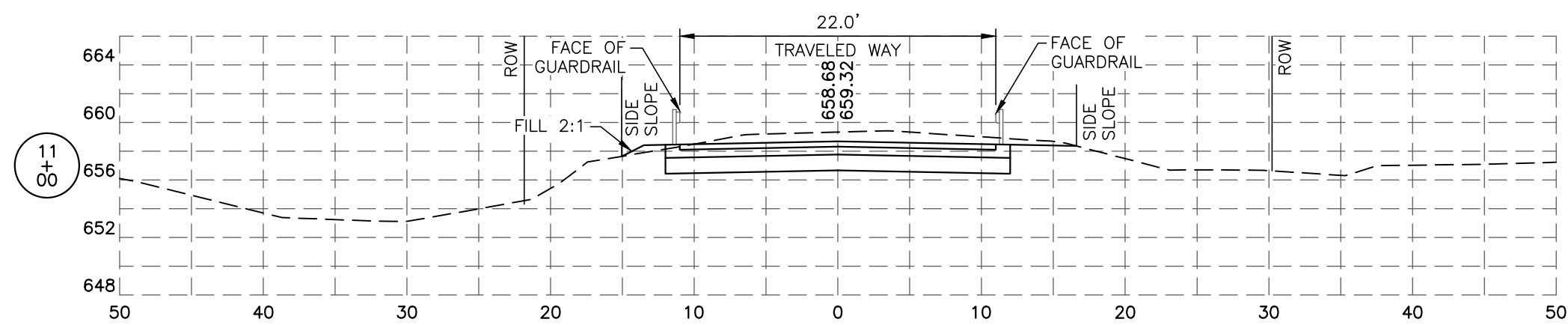
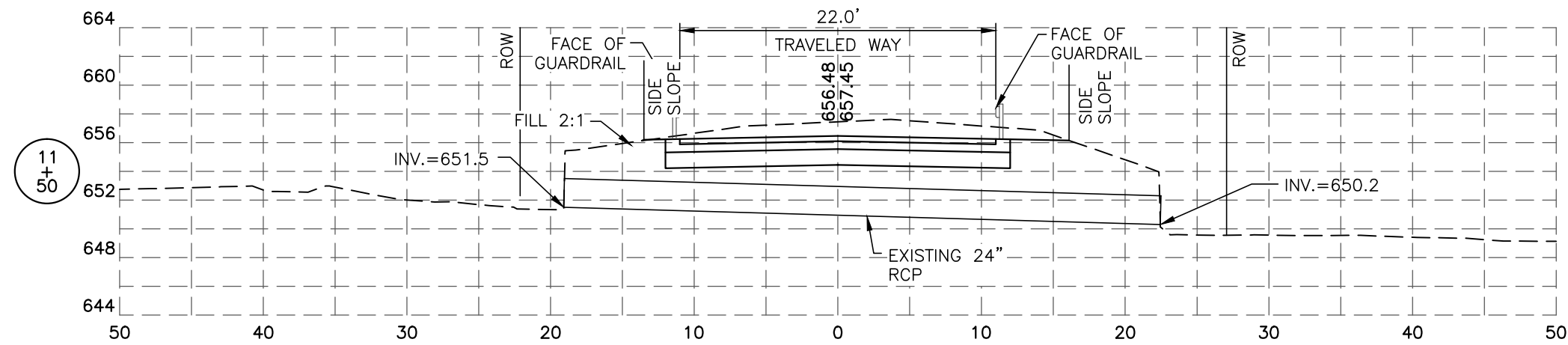
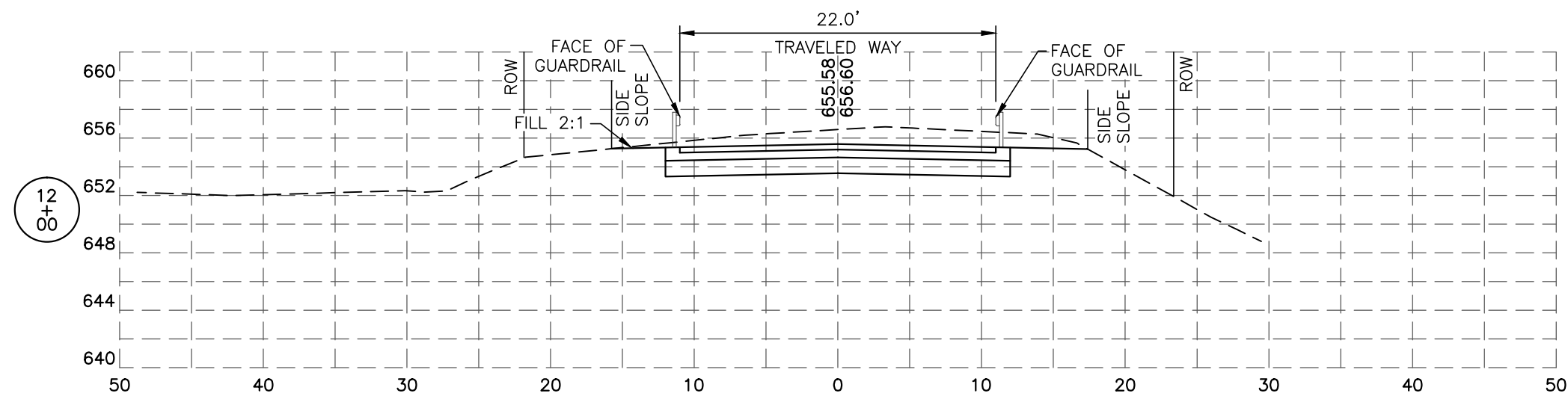


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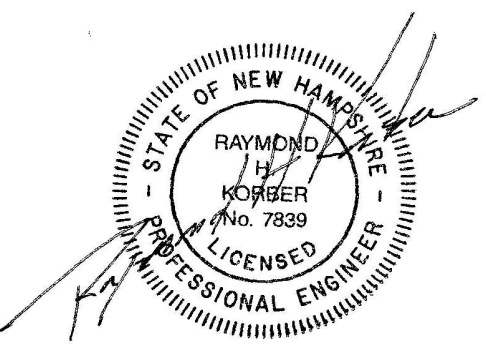


SHEET 2 OF 8





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SCALE:	AS NOTED
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APPROVED BY:	RHK

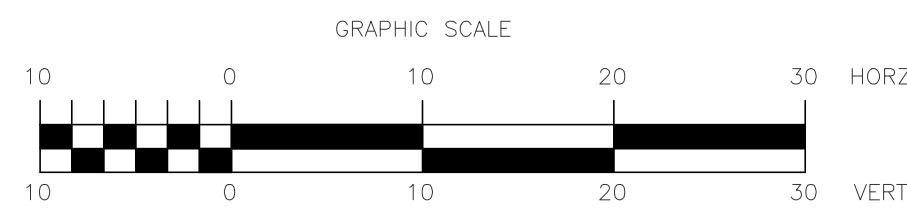
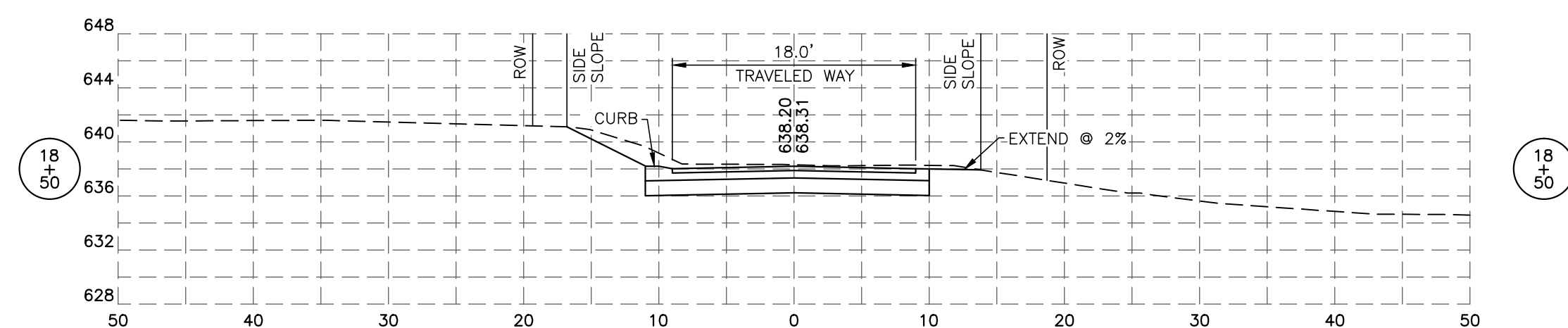
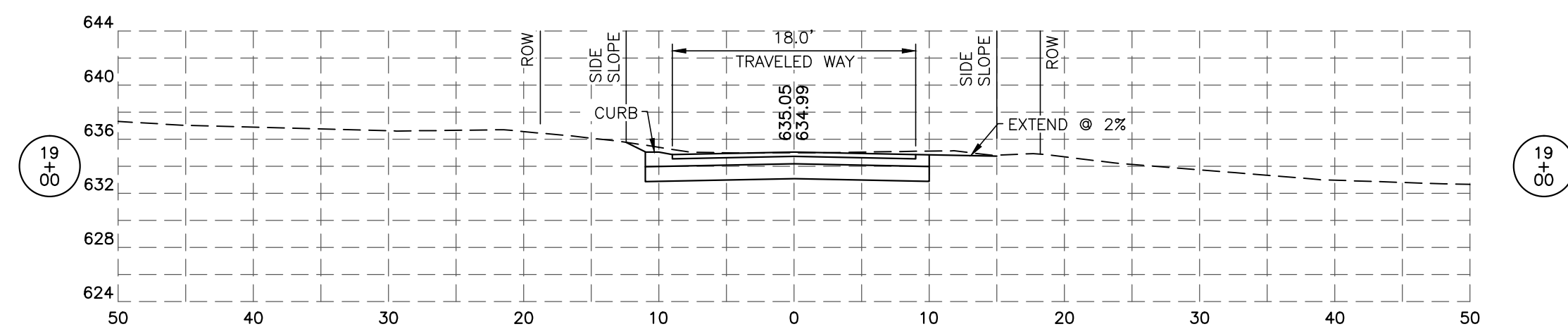
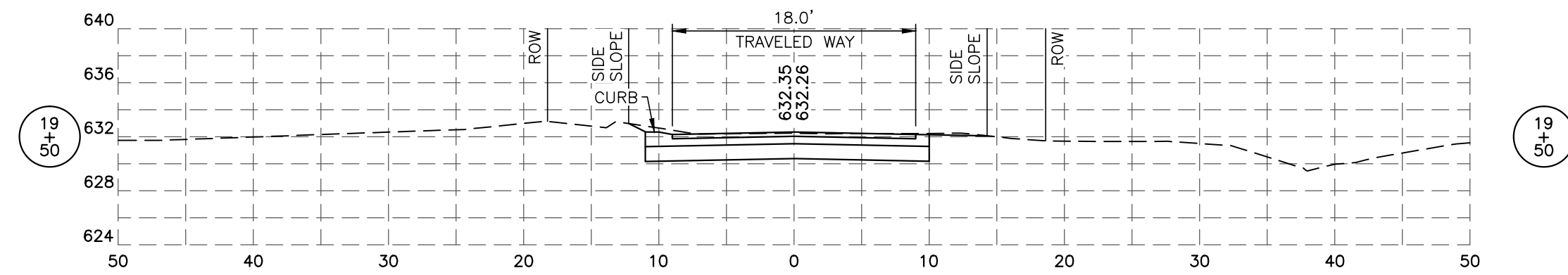
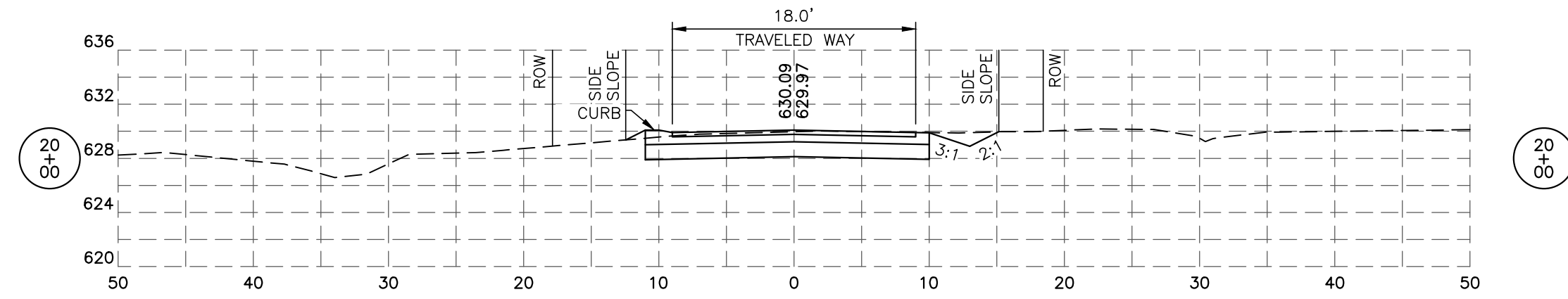
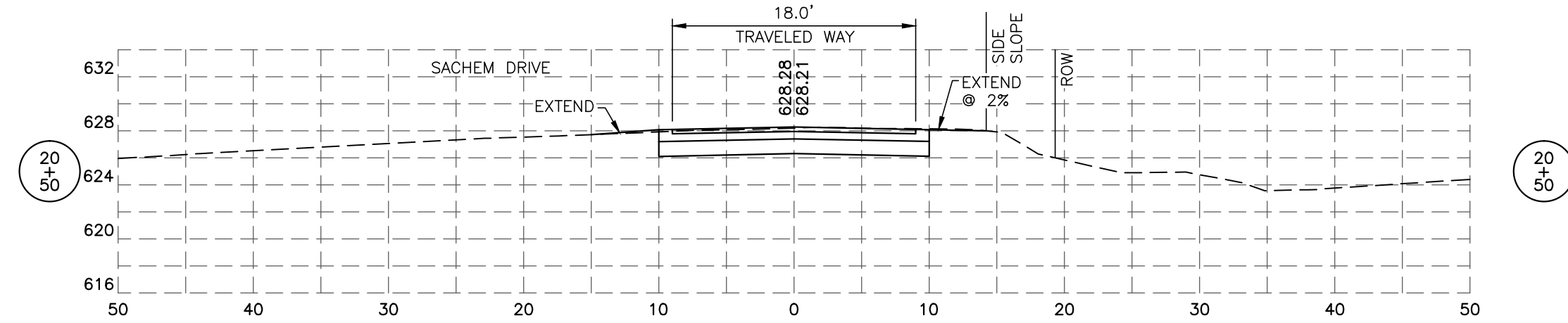
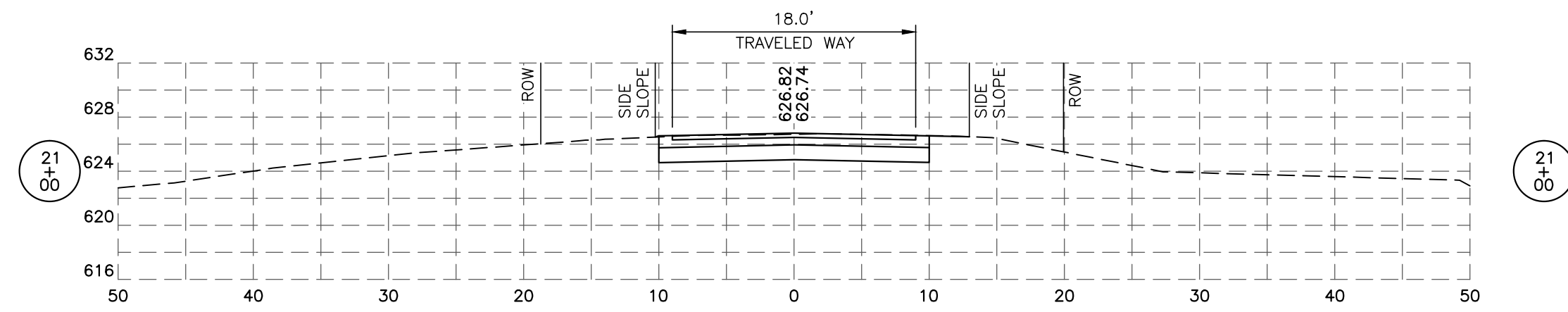
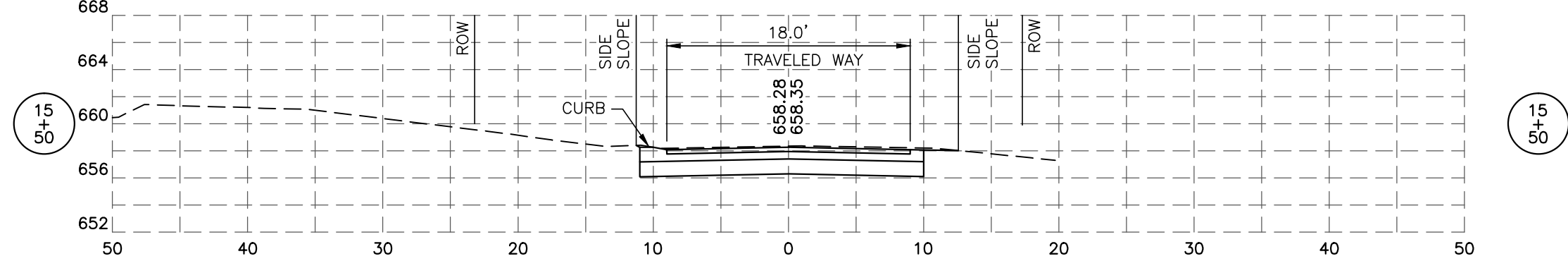
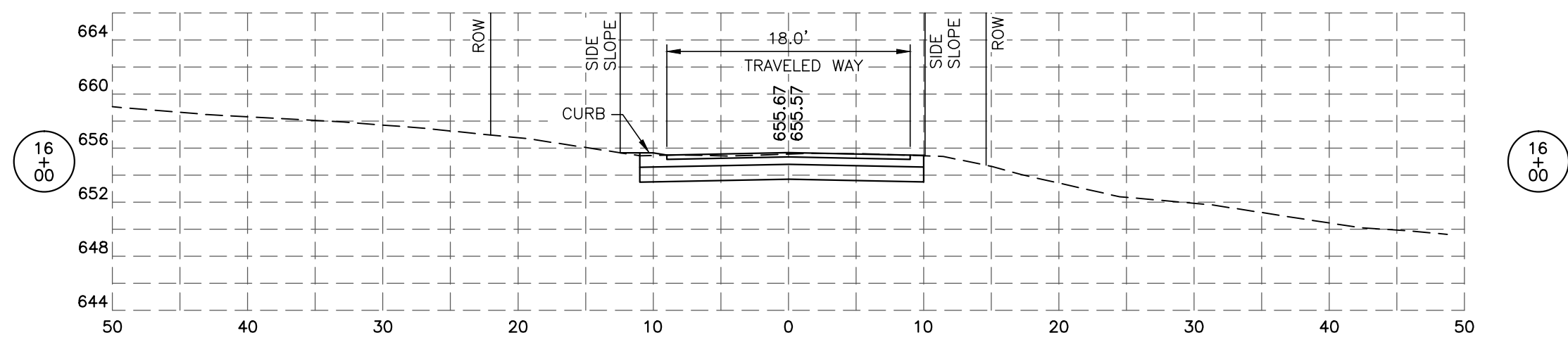
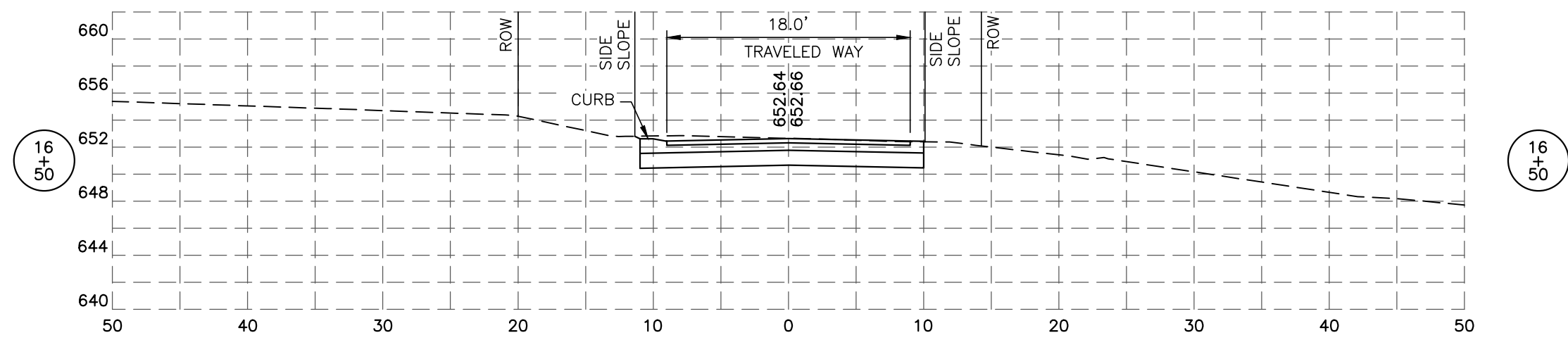
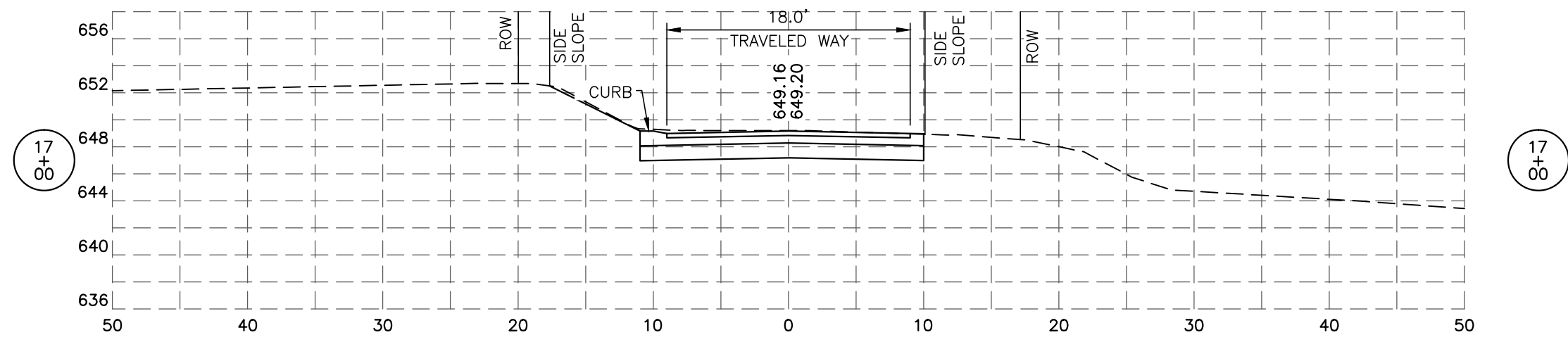
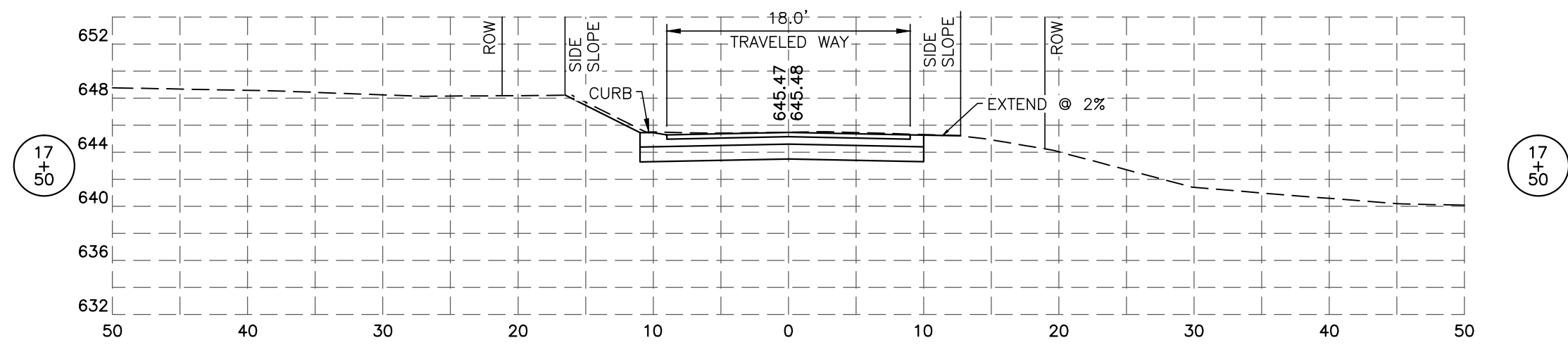
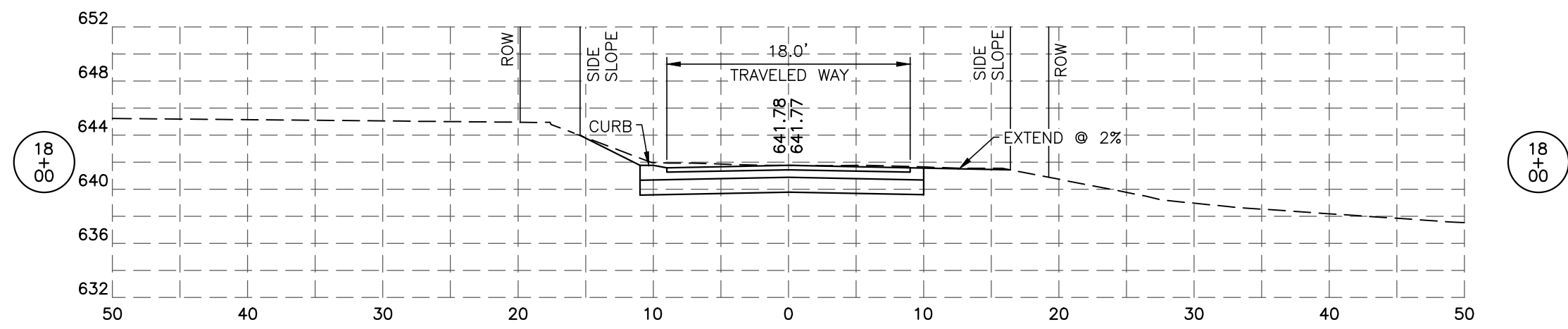
**2012 ROAD PROGRAM - SHERIDAN ROAD
MOULTONBOROUGH, NEW HAMPSHIRE**

**CROSS SECTIONS
STA 9+50 TO 15+00**

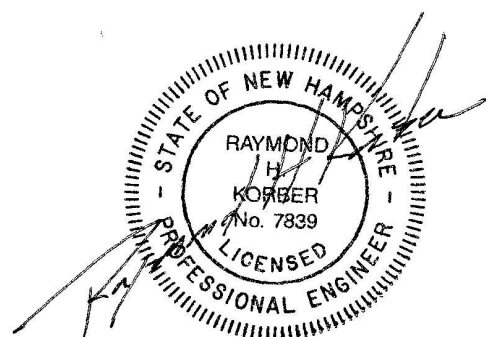
SHEET NO.

4

SHEET 4 OF 8



REVISIONS			
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SCALE:	AS NOTED
DESIGNED BY:	RGR
DRAWN BY:	NMT
CHECKED BY:	RHK
APPROVED BY:	RHK

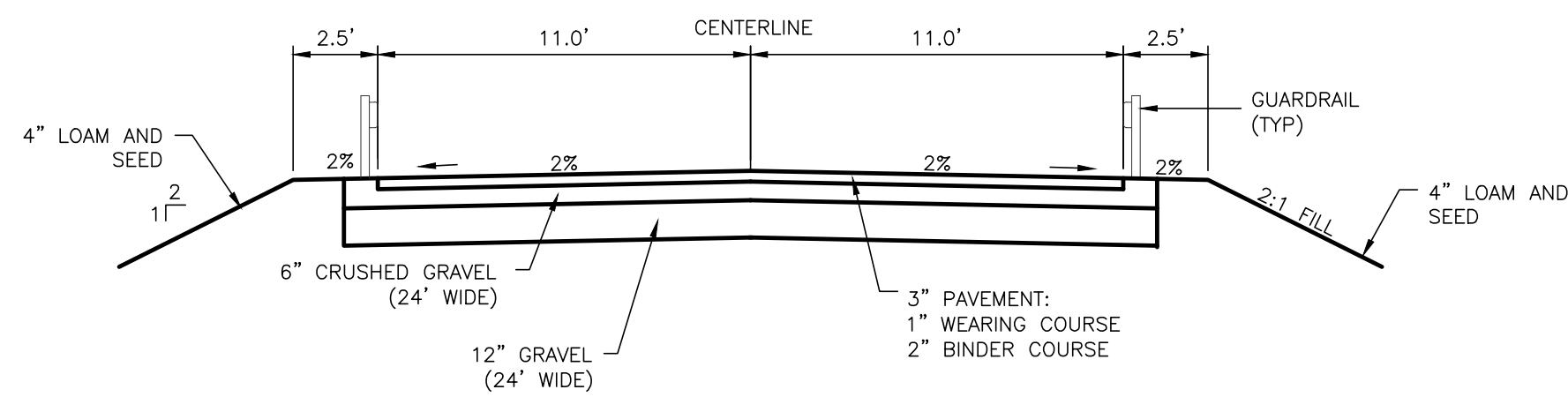
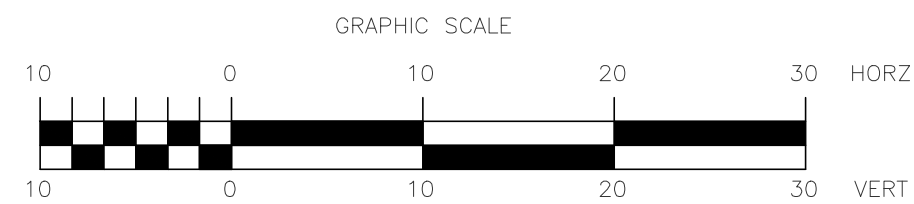
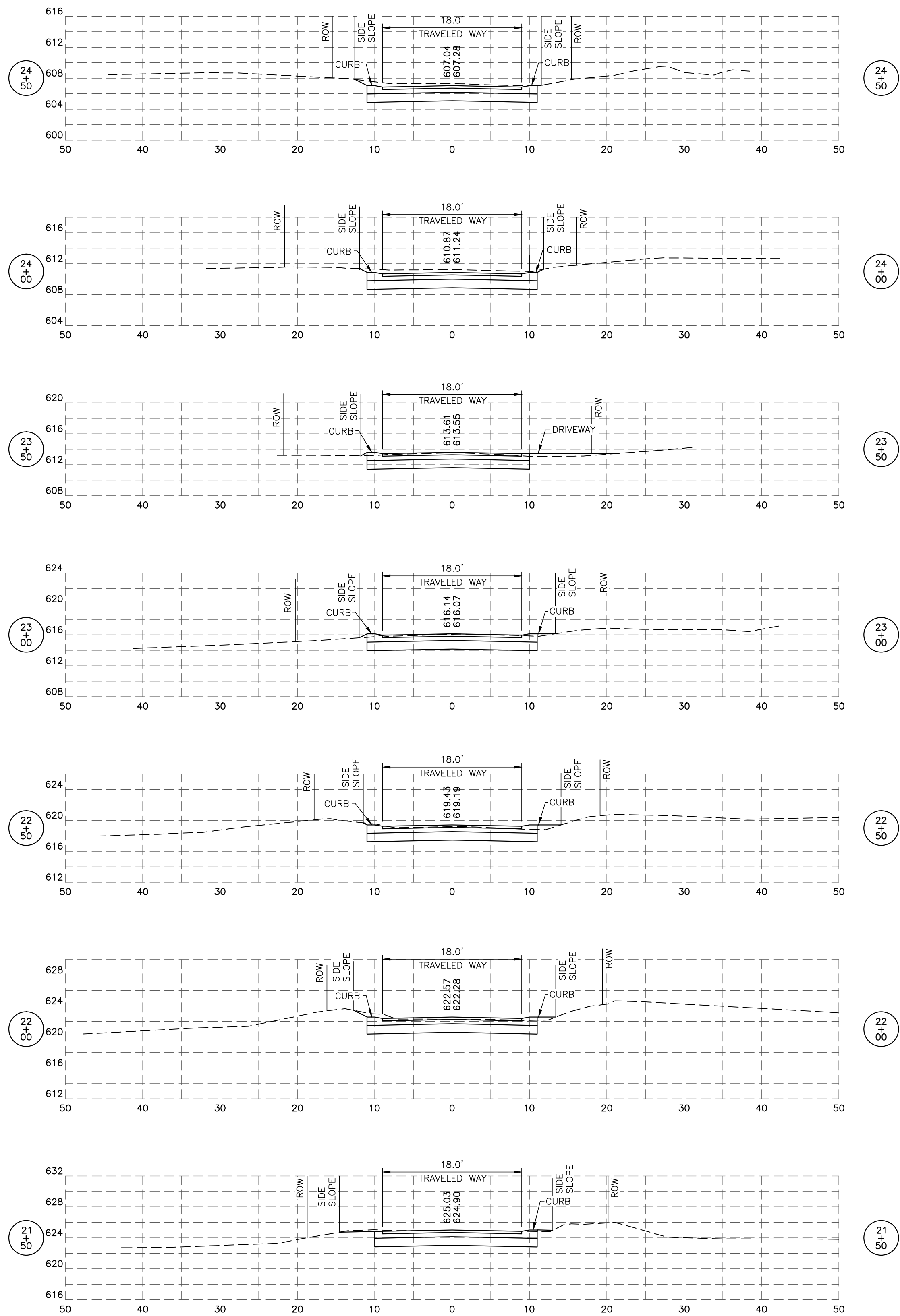
**2012 ROAD PROGRAM - SHERIDAN ROAD
MOULTONBOROUGH, NEW HAMPSHIRE**

**CROSS SECTIONS
STA 15+50 TO 21+00**

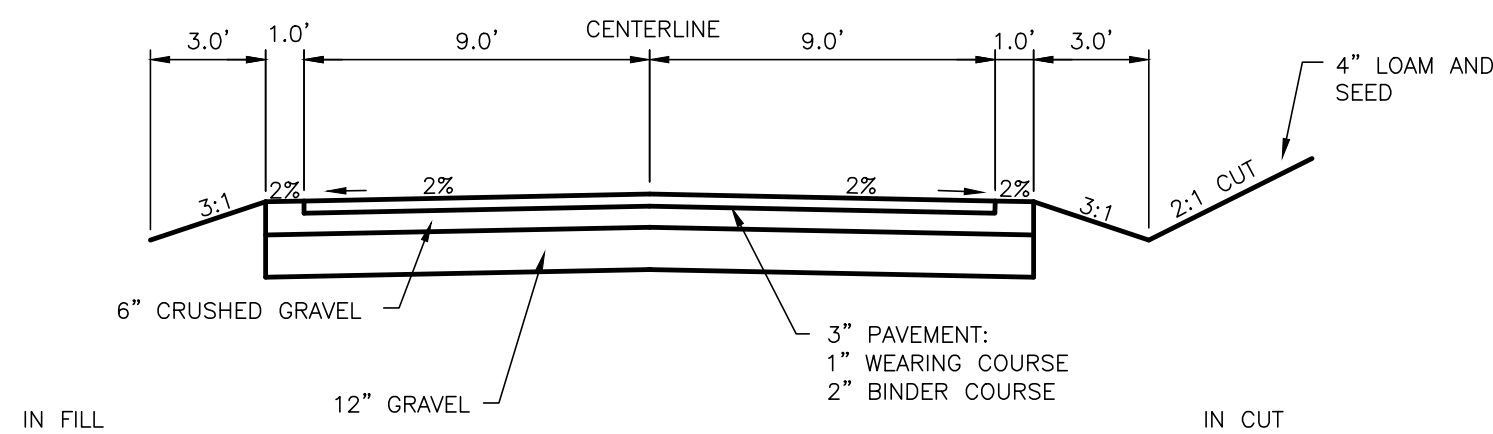
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5

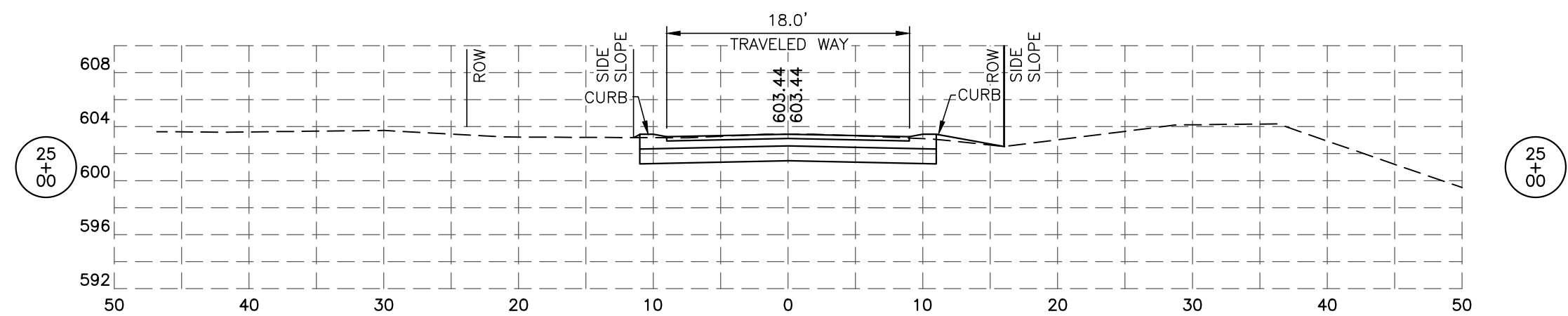
SHEET 5 OF 8



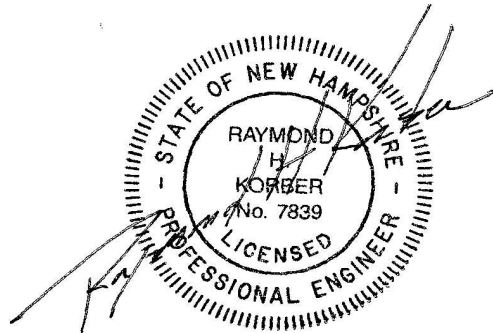
TYPICAL ROADWAY SECTION AT GUARDRAIL
SCALE 1" = 5'



TYPICAL ROADWAY SECTION
SCALE 1" = 5'



REVISIONS			
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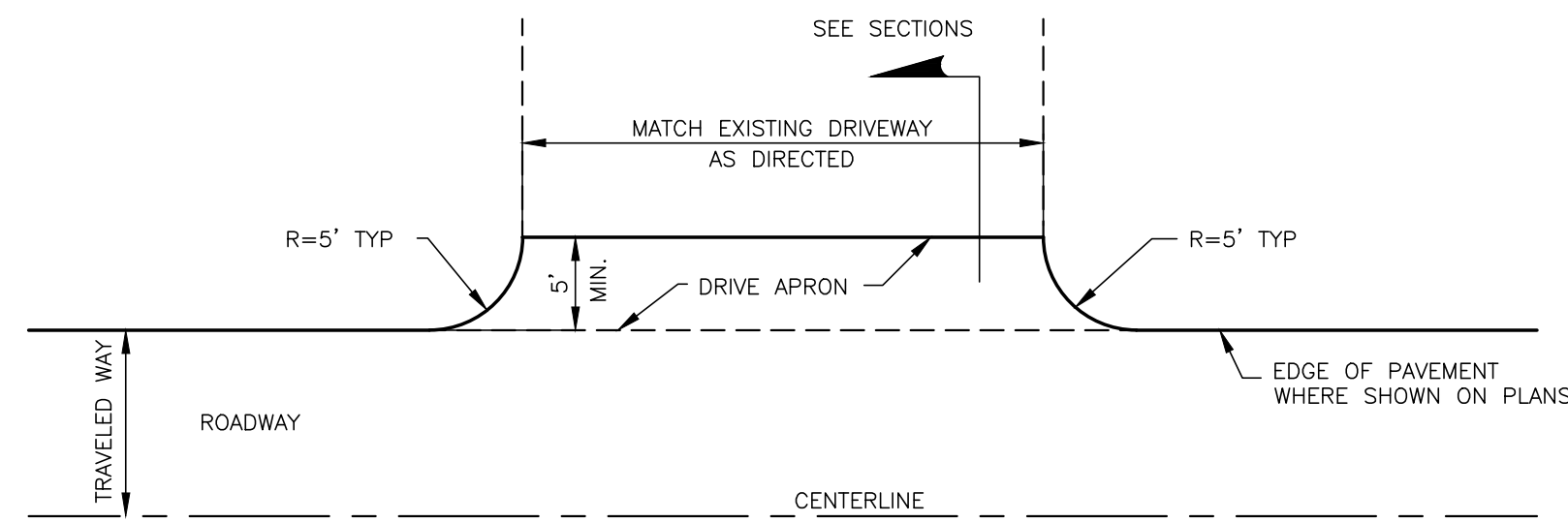
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APPROVED BY:	RHK

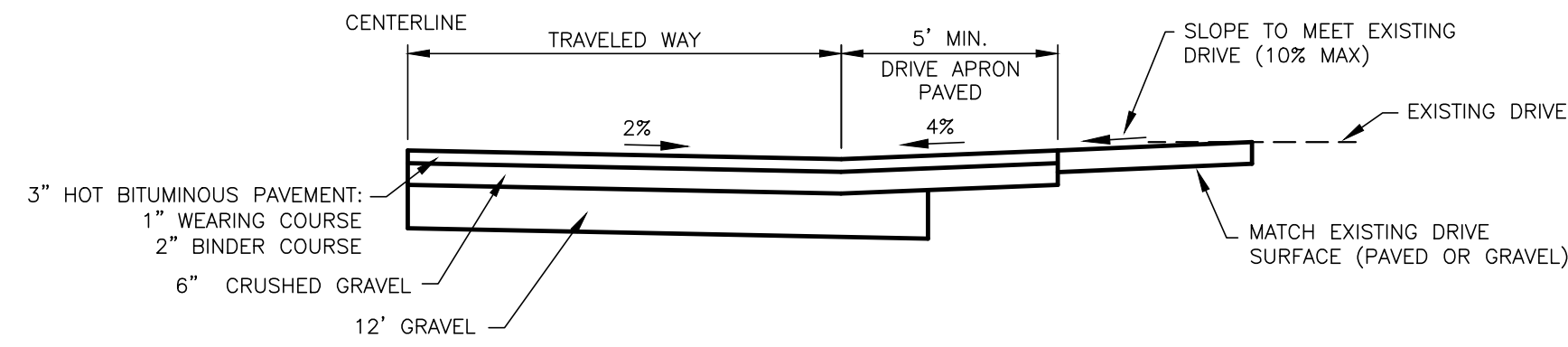
2012 ROAD PROGRAM - SHERIDAN ROAD
MOULTONBOROUGH, NEW HAMPSHIRE

CROSS SECTIONS STA 21+50 TO 25+00
AND TYPICAL ROADWAY SECTIONS

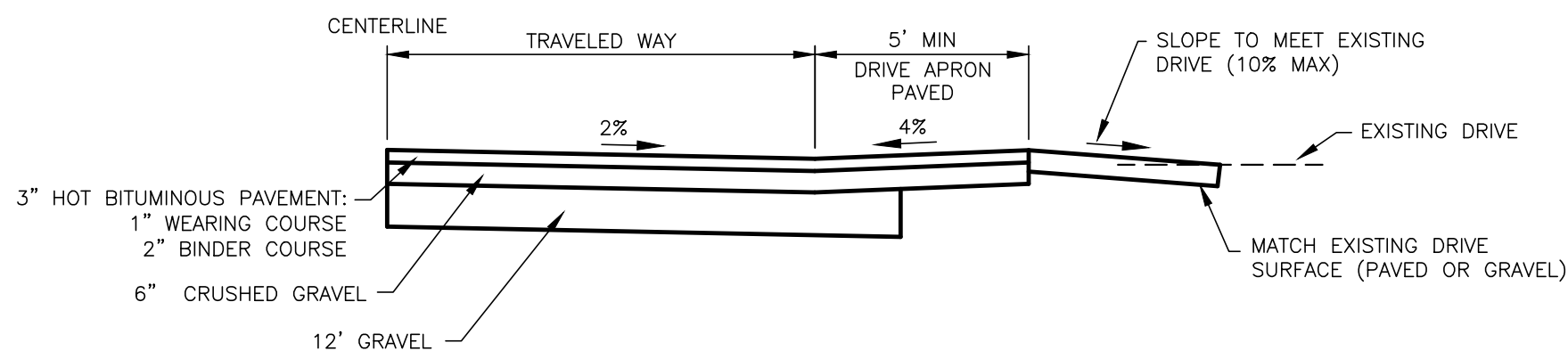
SHEET NO.
6
SHEET 6 OF 8



PLAN
SCALE 1" = 10'



SECTION - DRIVE ABOVE ROADWAY



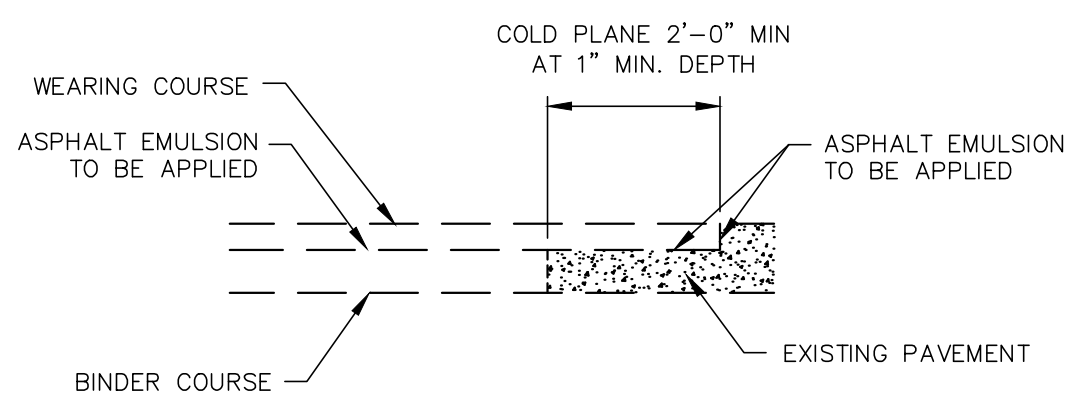
SECTION - DRIVE BELOW ROADWAY

NOTES:

1. CONTRACTOR SHALL COORDINATE WITH ENGINEER ON DRIVEWAY APRON WIDTH AND TRANSITION REQUIREMENT PRIOR TO COMMENCEMENT OF WORK.

DRIVEWAY APRON DETAIL

NOT TO SCALE

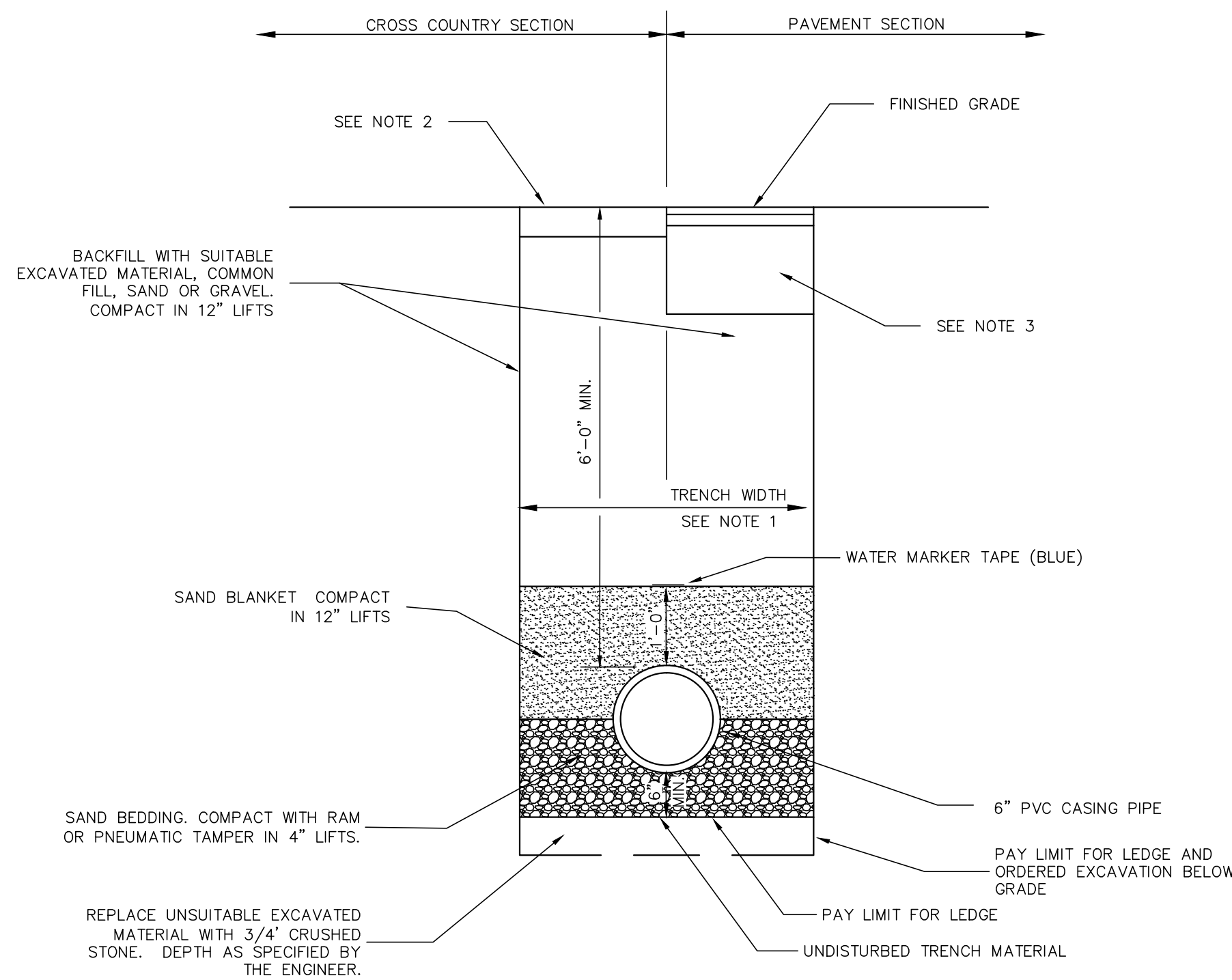


NOTES:

1. CONTRACTOR SHALL COORDINATE WITH ENGINEER PRIOR TO COMMENCEMENT OF WORK REGARDING JOINT LOCATION.

PAVEMENT JOINT DETAIL

NOT TO SCALE

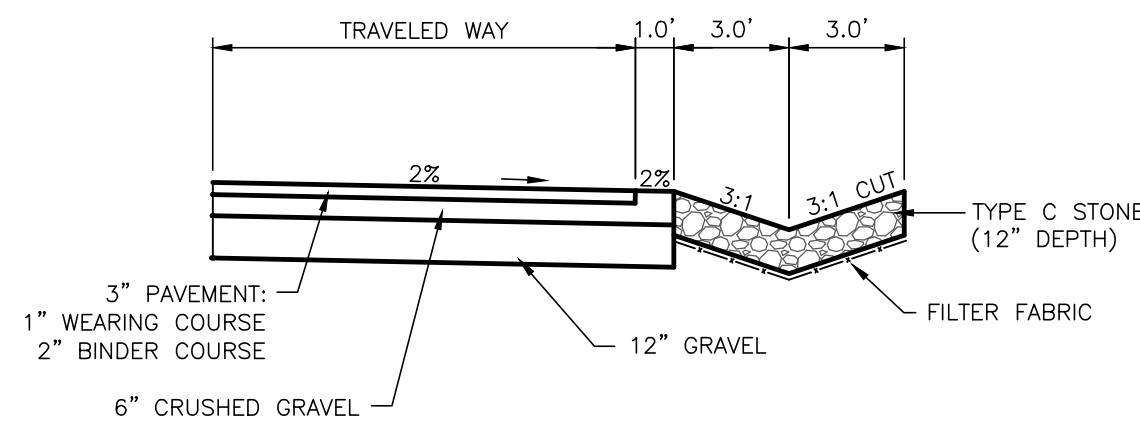


NOTES:

1. ALLOWABLE TRENCH WIDTH:
 - a. FOR PIPE LESS THAN OR EQUAL TO 12 INCHES IN DIAMETER, THE ALLOWABLE TRENCH WIDTH AT PLANE 12 INCHES ABOVE PIPE SHALL BE NO MORE THAN 36 INCHES.
 - b. FOR PIPE GREATER THAN 12 INCHES IN DIAMETER THE ALLOWABLE TRENCH WIDTH SHALL BE EQUAL TO THE PIPE OUTSIDE DIAMETER PLUS 24 INCHES.
2. WHERE GRASS OCCURS, LOAM AND SEED ALL DISTURBED AREAS TO A MINIMUM DEPTH OF 4 INCHES UNLESS OTHERWISE NOTED. WHERE NO GRASS OCCURS, MATCH EXISTING MATERIALS AND DEPTHS OR PLACE A MINIMUM OF 6 INCHES OF GRAVEL, WHICHEVER IS GREATER.
3. REFER TO TYPICAL ROADWAY SECTIONS.
4. BEDDING SHALL BE WRAPPED IN FILTER FABRIC IN LOCATIONS WHERE SOIL IS CONSIDERED UNSUITABLE BY THE ENGINEER.

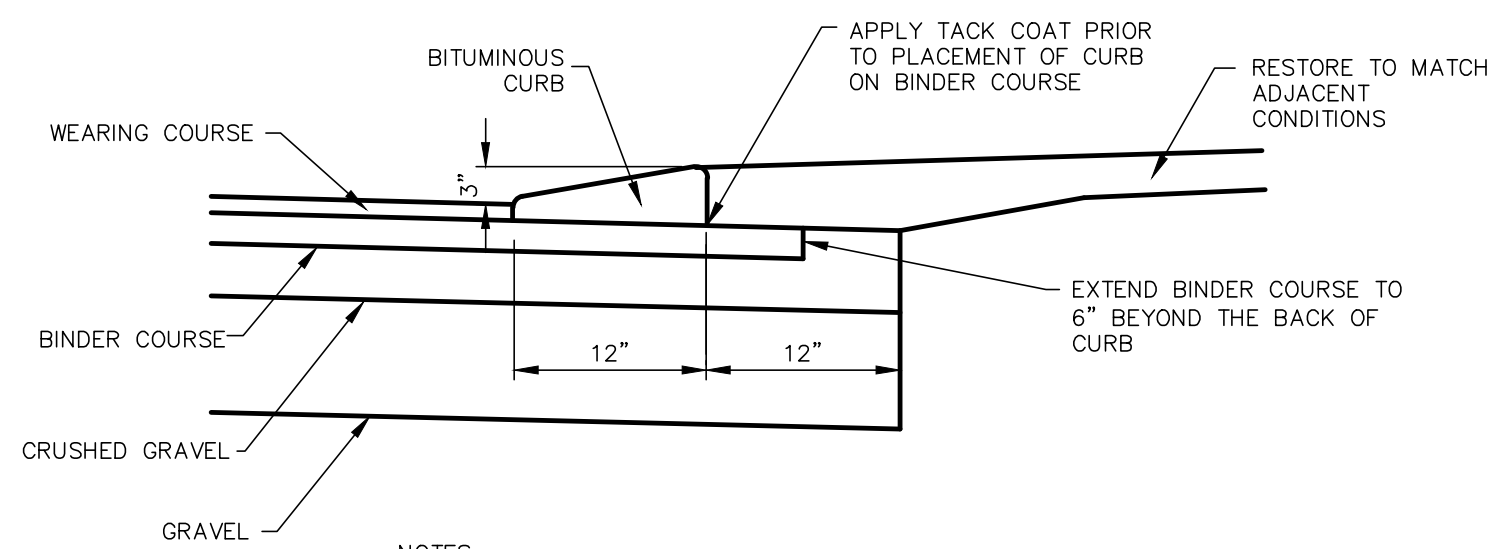
CASING PIPE TRENCH DETAIL

NOT TO SCALE



STONE LINED SWALE DETAIL

SCALE 1" = 5'



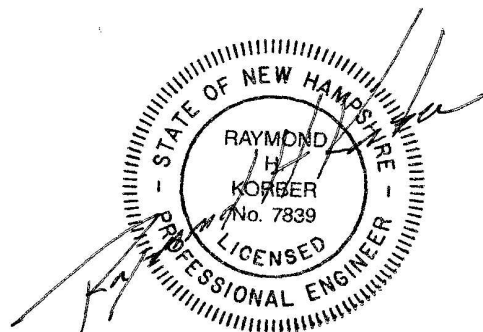
NOTES:

1. REFER TO TYPICAL ROADWAY SECTIONS FOR DEPTHS OF PAVEMENT, GRAVEL AND CRUSHED GRAVEL MATERIALS.
2. REFER TO PLANS FOR LOCATIONS OF BITUMINOUS CURB.

BITUMINOUS CURB DETAIL

NOT TO SCALE

REVISIONS				DESCRIPTION
NUMBER	DATE	BY		



KV Partners
CONSULTING ENGINEERS

PO BOX 7721
GILFORD, NH 03247
TEL: (603) 513-1909

PO BOX 432
NEW BOSTON, NH 03070
TEL: (603) 413-6550

www.kvpllc.com

DATE:	07-12-12
SCALE:	AS NOTED
DESIGNED BY:	RGR
DRAWN BY:	NMT
CHECKED BY:	RHK
APPROVED BY:	RHK

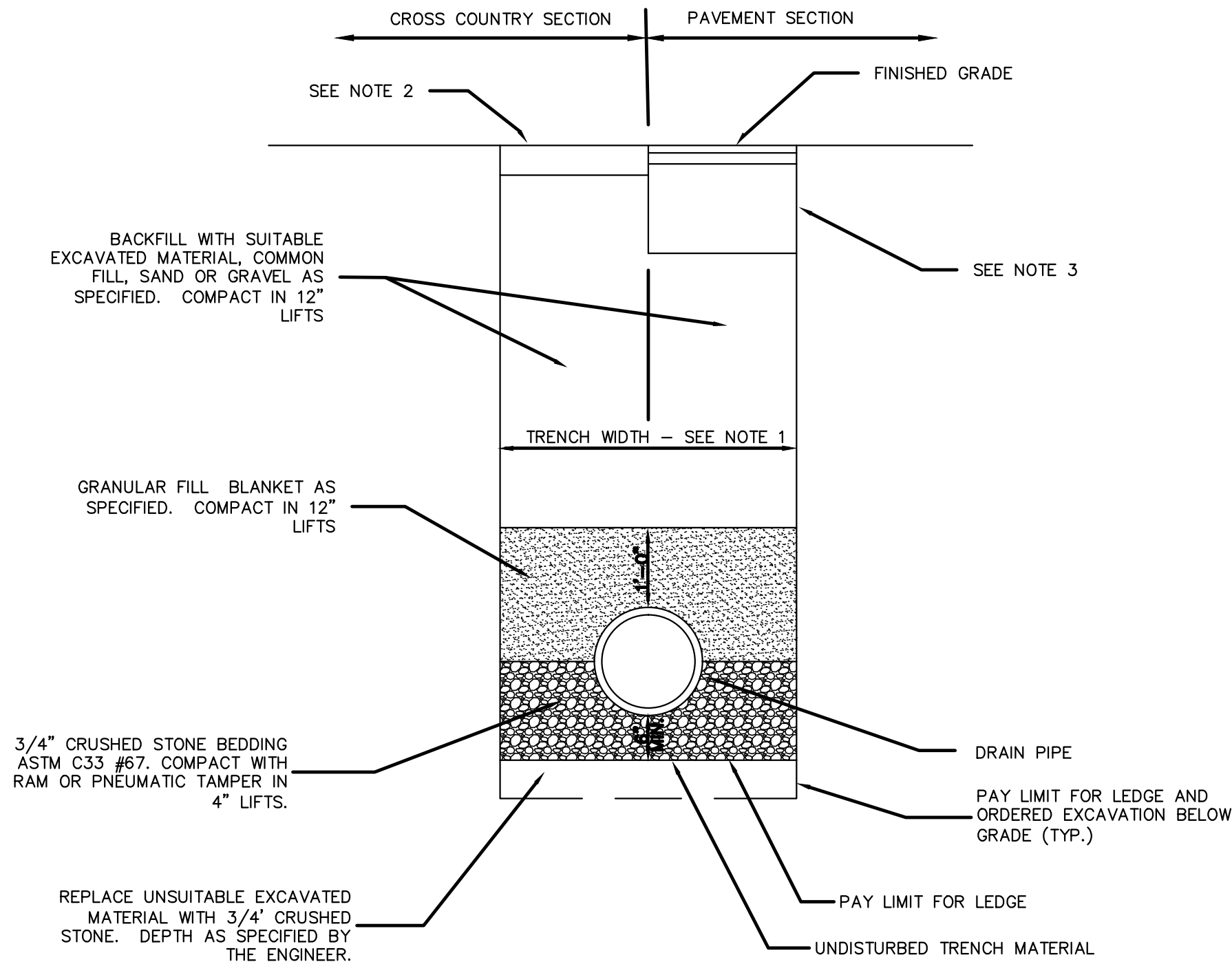
**2012 ROAD PROGRAM - SHERIDAN ROAD
MOULTONBOROUGH, NEW HAMPSHIRE**

ROADWAY AND MISCELLANEOUS DETAILS

SHEET NO.

7

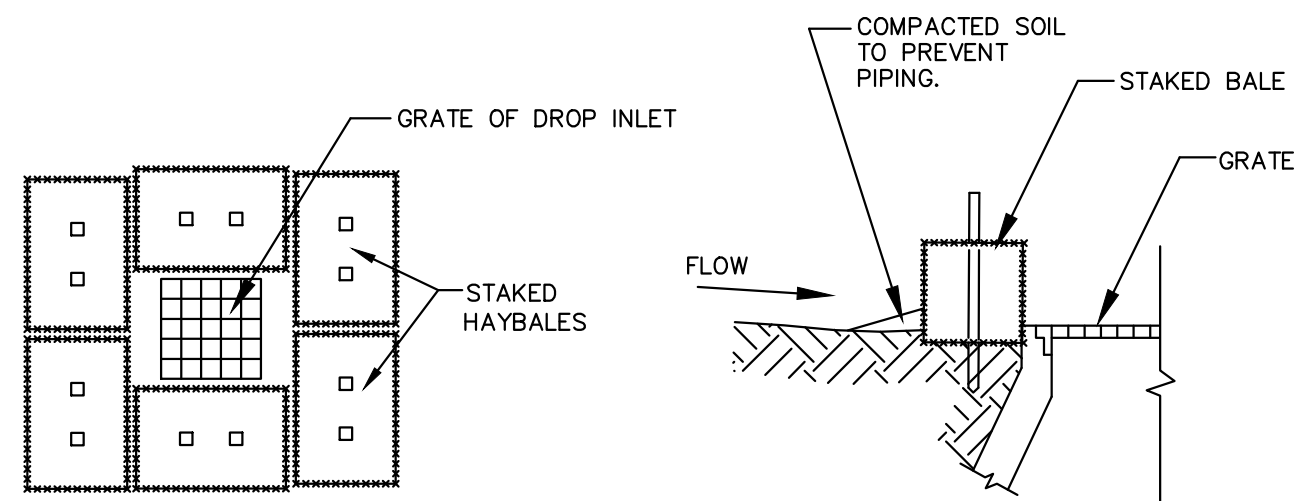
SHEET 7 OF 8



- NOTES:**
1. MAXIMUM ALLOWABLE TRENCH WIDTH SHALL BE THE GREATER OF 36" OR 2X THE NOMINAL PIPE DIAMETER. MINIMUM TRENCH WIDTH SHALL BE 36".
 2. WHERE GRASS OCCURS, LOAM AND SEED ALL DISTURBED AREAS TO A MINIMUM DEPTH OF 4 INCHES UNLESS OTHERWISE NOTED. WHERE NO GRASS OCCURS, MATCH EXISTING MATERIALS AND DEPTHS OR PLACE A MINIMUM OF 6 INCHES OF GRAVEL, WHICHEVER IS GREATER.
 3. REFER TO TYPICAL ROADWAY SECTIONS.

DRAIN TRENCH DETAIL

NOT TO SCALE

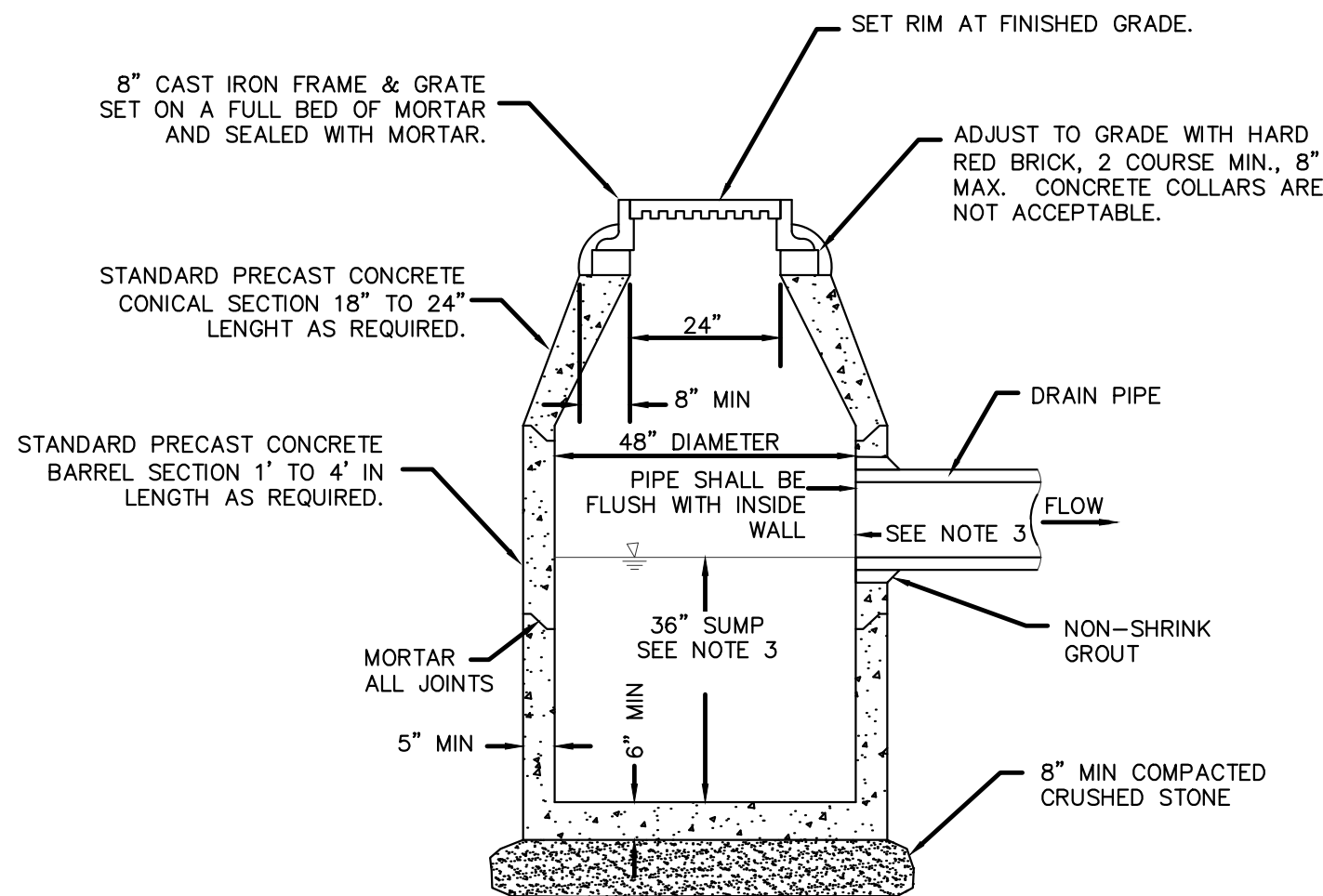


PLAN

SECTION

HAY BALE SILT TRAP DETAIL

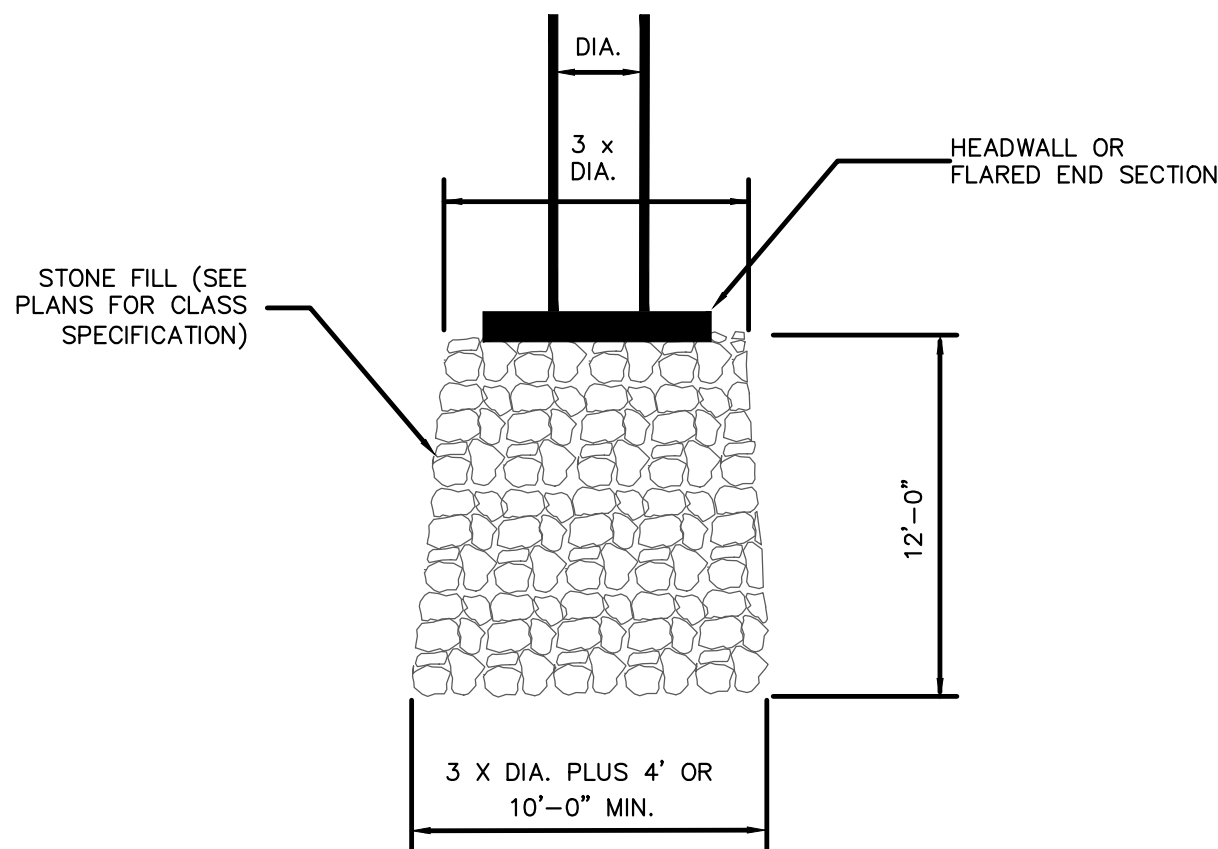
NOT TO SCALE



- NOTES:**
1. PRECAST CONCRETE SECTION ASSEMBLIES SHALL WITHSTAND H-20 LOADING AND SHALL CONFORM TO ASTM C478.
 2. ECCENTRIC CONE SECTIONS MAY BE USED.
 3. INSTALL OIL-DEBRIS HOOD AT CB #48. FURNISH AND INSTALL HOOD AND PROVIDE SUMP DEPTH IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS. ALL HOODS SHALL BE FROM THE SAME MANUFACTURER. HOOD SHALL BE THE "SNOUT" AS MANUFACTURER BY BEST MANAGEMENT PRACTICES, INC., LYME CT. OR EQUAL.

CATCH BASIN DETAIL

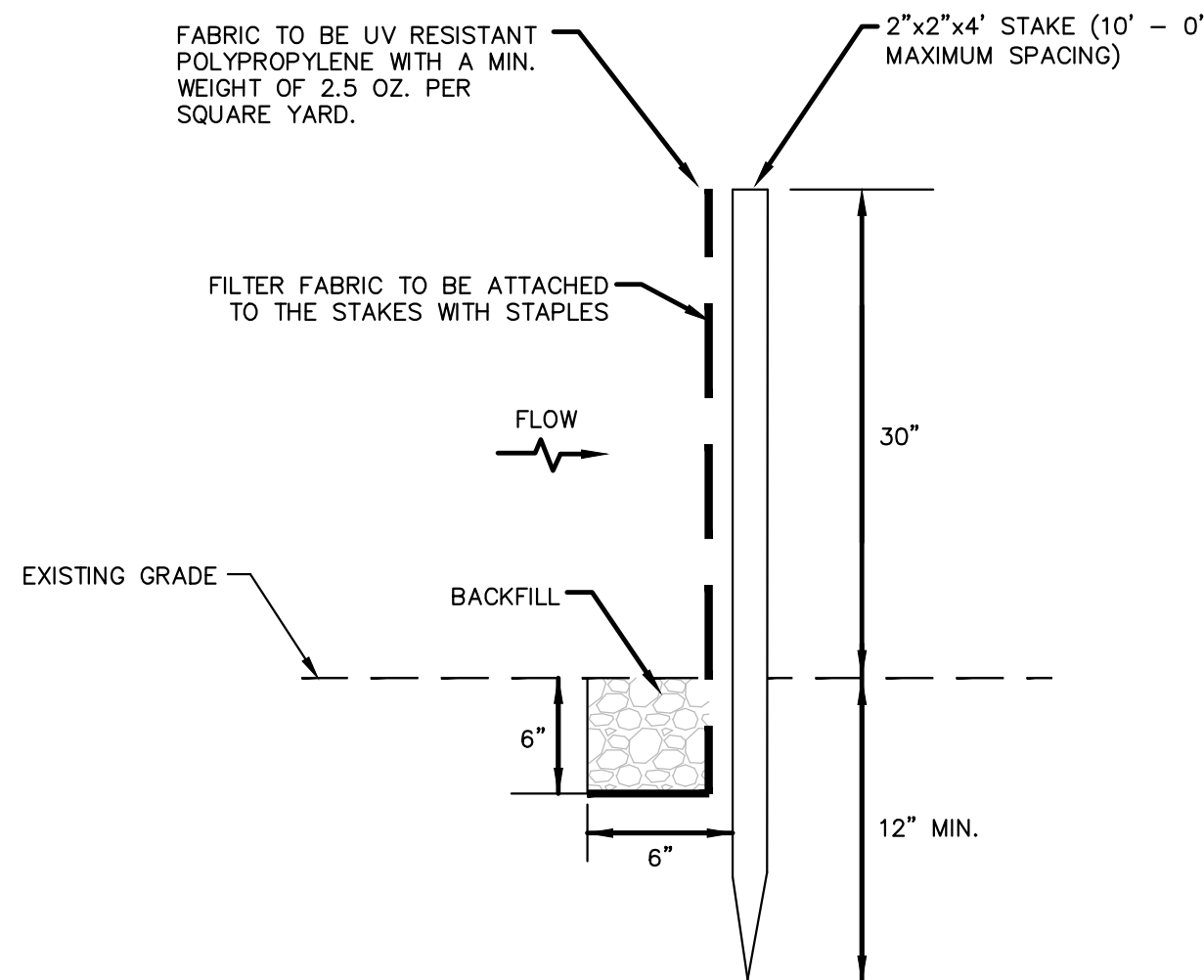
NOT TO SCALE



- NOTES:**
1. NON WOVEN FILTER FABRIC SHALL BE PLACED ON A PREPARED SUBBASE AND ROLLS SHALL BE OVERLAPPED A MINIMUM OF 12 INCHES. CARE SHALL BE TAKEN NOT TO PUNCTURE THE FABRIC DURING INSTALLATION AND ANY DAMAGED AREAS SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER.
 2. STONE FILL SHALL CONFORM TO NHDOT STONE SIZE CLASSIFICATIONS AND SHALL BE PLACED WITH A MINIMUM THICKNESS AS FOLLOWS:
A. CLASS C STONE FILL - MINIMUM THICKNESS 12 INCHES
B. CLASS B STONE FILL - MINIMUM THICKNESS 18 INCHES

STONE APRON DETAIL

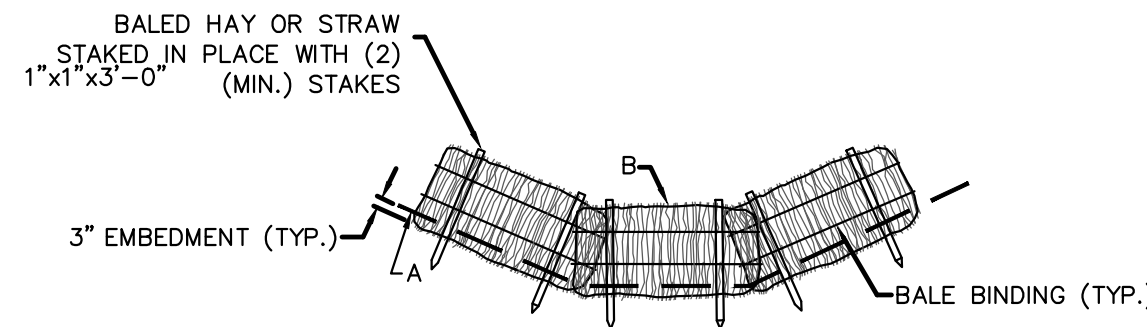
NOT TO SCALE



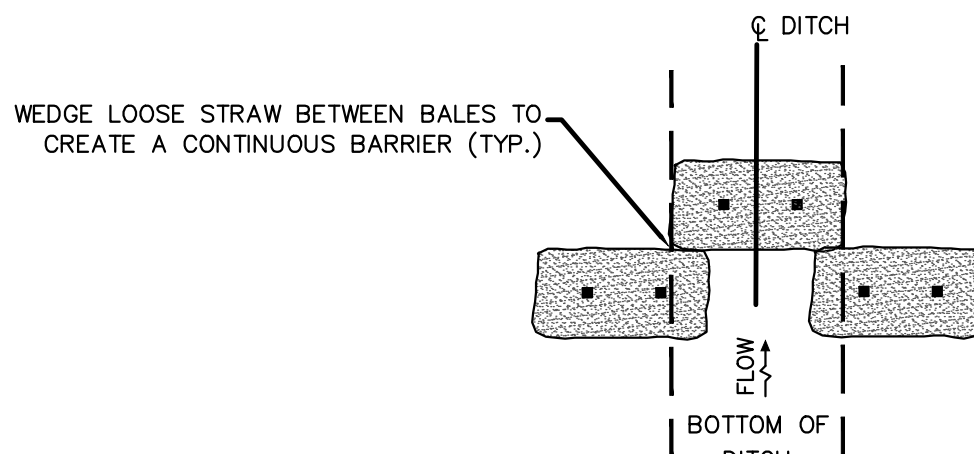
- NOTES:**
1. INSTALL HAY BALES AS DIRECTED BY THE ENGINEER.

SILT FENCE DETAIL

NOT TO SCALE



SECTION



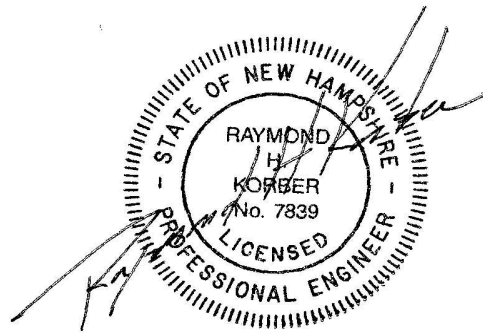
PLAN

- NOTES:**
1. THE BALES ARE TO BE EMBEDDED A MINIMUM OF 3" INTO THE EXISTING GROUND, ROADWAY SLOPE OR DITCH SECTION.
 2. POINT "A" SHOULD BE AT A HIGHER ELEVATION THAN POINT "B."
 3. BARRIERS SHALL BE INSTALLED AT 50 FOOT INTERVALS ALONG THE CENTERLINE OF THE PROPOSED DRAINAGE DITCHES, OR AS DIRECTED BY THE ENGINEER, UNTIL PERMANENT SURFACE TREATMENTS ARE INSTALLED AND FULLY STABILIZED.

EROSION CHECK DAM DETAIL

NOT TO SCALE

REVISIONS			
NUMBER	DATE	BY	DESCRIPTION



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**2012 ROAD PROGRAM - SHERIDAN ROAD
MOULTONBOROUGH, NEW HAMPSHIRE**

DRAINAGE AND MISCELLANEOUS DETAILS

SHEET NO.

8

SHEET 8 OF 8